

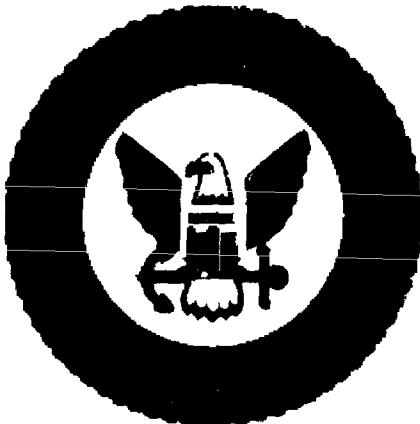
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CNC CHARLESTON
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COMPLETION REPORT INTERIM MEASURE FOR SOLID WASTE MANAGEMENT UNIT 166
(SWMU166) WITH TRANSMITTAL CNC CHARLESTON SC
2/17/1999
CNC CHARLESTON



COMPLETION REPORT

**INTERIM MEASURE FOR
SWMU 166
NAVAL BASE CHARLESTON
CHARLESTON, SC**



Prepared for:

**DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC**



Prepared by:

**Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston, S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106**

February 16, 1999



DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN
PORTSMOUTH, VIRGINIA, ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE, BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2108

IN REPLY REFER TO:

Ser: 127
FEB 17 1999

Mr. John Litton, Director
Division of Hazardous and Infectious Waste Management
Bureau of Solid and Hazardous Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

Dear Mr. Litton:

The enclosed completion report for SWMU 166 is submitted to fulfill the requirement of Permit Condition IV.D.6 for Permit Number SCO 170 022 560. If the Department of Health and Environmental Control should have any questions, please contact Reece Batten of Southern Division Naval Facilities Engineering Command at (843)820-5578.

Sincerely,

E.R. Dearhart
E.R. DEARHART
Director

Encl:
(1) Completion Report for SWMU 38

Copy to:
SCDHEC (Mr. Tapia, Mr. Bergstrand)
USEPA (Mr. Spariosu)
NAVFAC (Mr. Batten)
EA&H (Ms. Maddux)

29

COMPLETION REPORT

FOR SWMU 166

**NAVAL BASE CHARLESTON
CHARLESTON, SOUTH CAROLINA**

Engineering Branch Head:

Date: 2/15/99

Project Lead:

Date: 2/17/99

REPORT GENERATED BY:
ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE
NORTH CHARLESTON, SC 29405



COMPLETION REPORT

INTERIM MEASURE FOR
SYMU MS
NAVAL BASE CHARLESTON
CHARLESTON, SC



Prepared for:

**DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC**



Prepared by:

**Supervisor of Shipbuilding, Conversion and Repair,
USN, (SUPSHIP) Portsmouth Va.,
Environmental Detachment Charleston, S.C.
1899 North Hobson Ave.
North Charleston, SC 29405-2106**

February 16, 1999

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ACRONYMS, ABBREVIATIONS and SYMBOL

ACM	Asbestos Containing Material
AOC	Area of Concern
BLS	Below Land Surface
CMS	Corrective Measures Study
DERP	Defense Environmental Restoration Program
DET	Environmental Detachment Charleston
DON	Department of the Navy
IM	Interim Measure
IR	Installation Restoration
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
ROC	Run of Crusher
SARA	Superfund Amendments and Reauthorization Act
SCDHEC	South Carolina Department of Health and Environmental Control
SOUTHDIV	Southern Division Naval Facilities Engineering Command
SUPSHIP	Supervisor of Shipbuilding, Conversion and Repair, USN
SWMU	Solid Waste Management Unit
TCE	Trichloroethylene
USN	United States Navy

1. INTRODUCTION

1.1 INSTALLATION RESTORATION PROGRAM The purpose of the Department of the Navy (DON) Installation Restoration (IR) Program is to identify, assess, characterize and clean up or control contamination from past hazardous waste disposal operations and hazardous material spills at Navy and Marine Corps activities. The Defense Environmental Restoration Program (DERP) is codified in the Superfund Amendments and Reauthorization Act (SARA) Section 211 (10 USC 2701). The IR Program is a component of DERP.

1.1.1 Naval Base Charleston IR Program At Naval Base Charleston, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) was prepared which divided the Naval Base into zones and identified Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) within each zone. The RFA evaluated each SWMU and AOC and determined which sites required further investigation. Based on the RFA, a RCRA Facility Investigation (RFI) work plan has been or is being prepared for each zone containing SWMUs and AOCs requiring further investigation. On completion of the RFI for each Zone, a RFI report will be prepared for that zone. The RFI reports will identify SWMUs and AOCs containing wastes requiring remediation. Eventually, Corrective Measures Studies (CMSs) will be prepared to determine the best means of remediating each site.

1.2 INTERIM MEASURES Interim Measures (IM) performed as part of the IR Program are intended to eliminate sources of environmental contamination or limit the spread of environmental contaminants prior to the completion of the RFI CMSs.

1.3 SWMU 166 SWMU 166 is a site located on the Naval Annex in Zone K. The site consists of gravity sanitary sewer lines and septic system. No known industrial discharges currently enter this sanitary sewer system.

Past investigations documented in the Zone K RCRA Facility Investigation Report for NAVBASE Charleston have identified Trichloroethylene (TCE) in groundwater during the initial investigation

of the sanitary sewer. The probable source of the TCE was identified as an area of surface soil contamination, however there is no documentation a spill occurred at this area. (See Figure #1, Appendix A). TCE was detected in the surface soil in concentrations up to 59,000 parts per billion (ppb). Subsurface concentrations were detected as high as 3,900 ppb.

1.4 SWMU 166 INTERIM MEASURE During the interval between the RFI and the completion of the CMS, it was decided by Southern Division Naval Facilities Engineering Command (SOUTHDIV) that an IM would be performed by Supervisor of Shipbuilding, Conversion and Repair (SUPSHIP), United States Navy (USN), Portsmouth Va. Environmental Detachment Charleston (SPORTENVDETCHASN). The objective of this IM was to excavate and dispose of TCE contaminated soil from an area that was assumed to be the point source of the groundwater contamination. Additionally, the IM was to take investigative samples from an oily stained area along the fence line located at the southwest side of the site. The excavation was to continue until a sampling program indicated with reasonable confidence that the concentrations of contaminants at the site were less than 30 ppb. This was the level agreed upon at the August 1998 Project Team meeting. This IM is consistent with the ultimate cleanup of SWMU 166 and is not intended to circumvent the public participation process inherent within environmental cleanup under RCRA authority.

1.4.1 SWMU 166 INTERIM MEASURE EXECUTION SUMMARY The execution of this IM began on April 22, 1998 with the investigative sampling in an area west of the site in a suspected area separate from known TCE contamination. A sample was taken in a stained area with no grass, near a telephone pole. The sample was analyzed for the full suite of Title 40 Code of Federal Regulations, Part 261, Appendix IX constituents. Additionally, ten sample borings, first and second interval, were taken along the stained fence line and ditch at this same location. Results indicated no detection of Trichloroethylene. (See Figure #1 and sample results, Appendix A).

In the area of known TCE contamination, no know documents exist indicating a spill having occurred at this site. Subsequently, the Navy characterized this waste, with Project Team concurrence, as non-hazardous subject to Toxicity Characteristic Leaching Procedure (TCLP)

findings. On May 20, 1998 five waste characterization samples were taken from the area of known TCE contamination for TCLP analysis. See Appendix A for results. On September 9, 1998 excavation began with the removal of the 22' x 24' concrete pad and soil from soil boring locations ASRB006, ARSB007 and ASRB008. After the initial excavation, confirmatory samples were taken along the side-walls and bottom of the excavation. Results showed contamination still existed on the eastern and western side-walls and at the bottom of the excavation at the southern end, indicating additional soil removal was necessary. (See Figure #2 and sample results, Appendix A).

The final excavation began on 8 October, 1998. This phase of the IM required the abandonment of monitoring wells NBCK16603 and NBCK16603D on 28 October, 1998. (See Appendix B for documentation). Confirmatory samples taken after completion indicated one first interval sample exceeded the limit, and three samples from the bottom of the excavation exceeded the limit. Further excavation of the bottom of the dig was not continued since groundwater was encountered. Four delineation samples were taken around the one first interval sample location, with all four results less than 30 ppb. Soil was excavated up to these sample locations filling three 55-gallon drums. (See Figure #3 and sample results, Appendix A).

Because groundwater was encountered, and TCE contamination already exists in the groundwater, Southern Division directed that no further excavation be performed at the site. The site was back filled, compacted and graded.

Sample analysis data sheets are found in Appendix C.

1.4.2 SWMU 166 INTERIM MEASURE CONCLUSION

This Interim Measure effectively removed contaminated soil from land surface to approximately 5' to 6' below land surface (BLS). Groundwater was encountered at approximately 5' BLS. Samples collected along the fence line and ditch resulted in no detection of TCE. Two monitoring wells located at the site of the excavation were abandoned by over-drilling and filling with grout.

2. INTERIM MEASURE EXECUTION

2.1 ACTIONS REQUIRED BY INTERIM MEASURE WORK PLAN Required actions are listed below:

2.1.1 Actions required by Interim Measure Work Plan

- Removal and disposal of a 22' x 24' concrete pad.
- Excavation and disposal of soil from a 25' x 50' area to approximately 5 feet in depth around sample locations ASRB006 and ARSB007.
- Excavation and disposal of soil from a 25' x 25' area to approximately 1 foot in depth around sample location ASRB008.
- Take 11 investigative samples of a suspected TCE contaminated area from the oily stained area along the southwest side of the site. One sample to be analyzed for a full suite of Title 40 Code of Federal Regulations, Part 261, Appendix IX constituents. The remaining 10 samples to be analyzed for Appendix IX volatiles.

2.2 OBSERVATIONS NOTED

2.2.1 Soil Conditions The land surface contained a concrete pad and asphalt parking area. Top soil consisted of loamy sand with grass on top. Excavated soil was brown-orange colored fine sand.

2.2.2 Groundwater Groundwater was encountered at approximately 5 feet.

2.3 PLAN MODIFICATIONS AND JUSTIFICATION The IM Work Plan specified removal of soil at RFI sample locations ASRB006, ASRB007 and ASRB008. The sample analysis from the area revealed that the excavation site required further expansion to include an area approximately 60' x 80', extending beyond the three RFI sample locations. (See Figure #3, Appendix A).

The extension of the excavation required the abandonment of two wells.

3. INTERIM MEASURE OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK Following completion of all site work on 18 December 1998, the DET had removed 905 tons of TCE contaminated soil. The site was back-filled, compacted, graded to existing conditions, seeded and covered with straw. Site photographs are included in Appendix D.

4. SAMPLING

4.1 SAMPLING EVOLUTIONS AND RESULTS

4.1.1 Investigative Sampling Investigative samples were taken to determine if contamination existed along the fence line and ditch. Delineation samples were taken around one confirmatory sample location for the removal of soil from that sample location.

4.1.2 Confirmation Sampling Upon completion of the initial excavation, grab samples were taken along the perimeter and bottom of the excavation to determine the effectiveness of the soil removal. These samples indicated more excavation was required. Additional confirmation sampling was conducted after the final excavation was complete. See Appendix C for sampling documentation.

5. WASTE GENERATION

5.1 HAZARDOUS/POTENTIALLY HAZARDOUS WASTE

A total of 4.4 tons of TCE contaminated soil was disposed of as hazardous waste to a permitted Treatment, Storage and Disposal Facility.

5.2 NON-HAZARDOUS WASTE

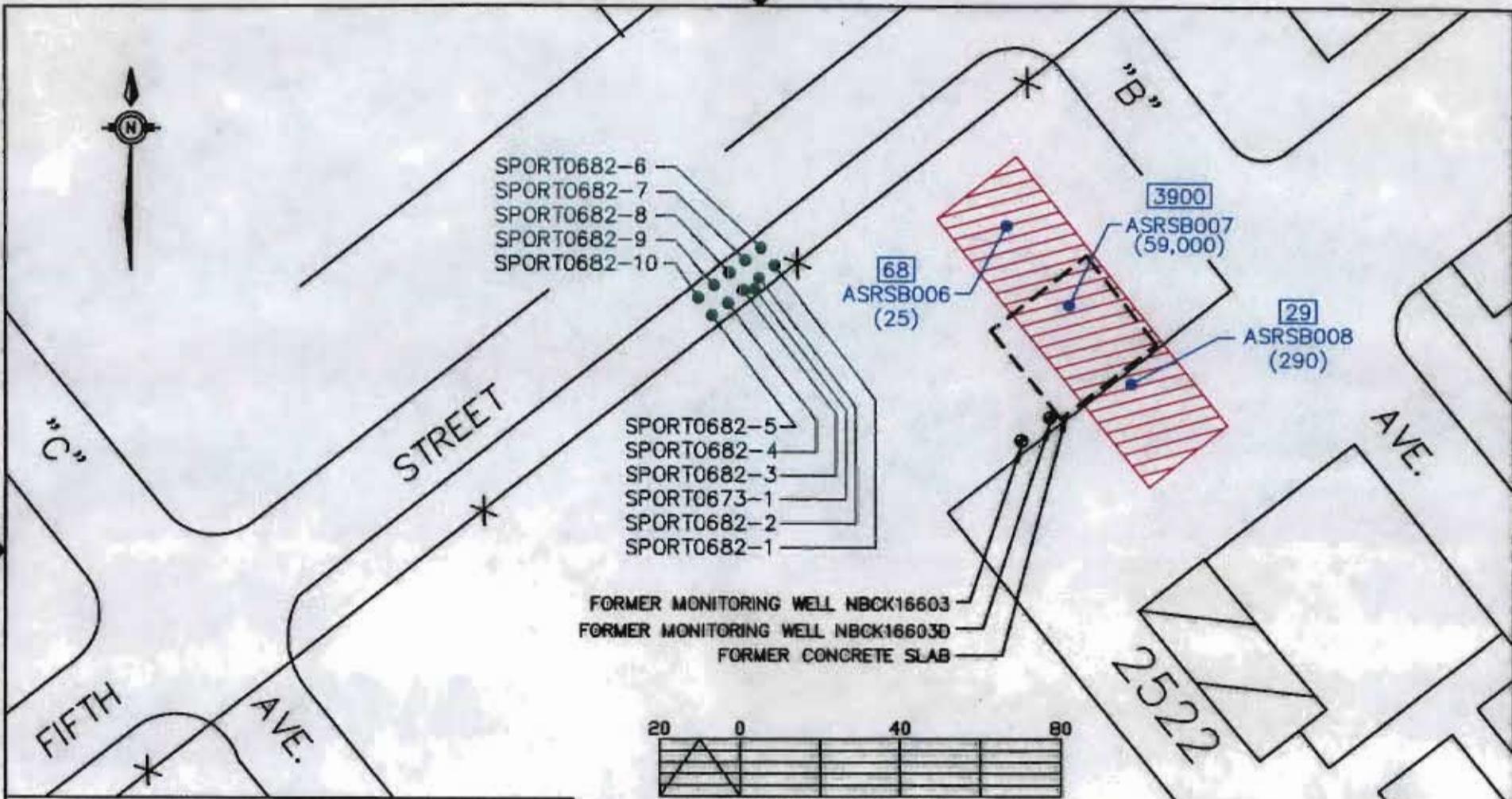
A total of 900 tons non-hazardous TCE contaminated soil and concrete was disposed of to a Subtitle D landfill permitted to accept special waste.

Waste Manifests are in Appendix E.

FIGURES AND SAMPLE RESULTS

APPENDIX A

FIGURES AND SAMPLE RESULTS



LEGEND

- TCE SOURCE AREA
- TCE SOURCE AREA SOIL SAMPLE LOCATION
- INVESTIGATIVE SAMPLES
- () SURFACE CONCENTRATION (0'-1') SAMPLE RESULTS (ppb)
- SUBSURFACE CONCENTRATION (3'-5') SAMPLE RESULTS (ppb)
- *-* FENCE



ENVIRONMENTAL DETACHMENT CHARLESTON
1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 1
SWMU 166 TCE SOURCE AREA

DATE: 02-09-99	PREPARED BY: J.I. BROWNLEE	REV: -
SCALE: -		SHEET: 1

**FULL SCAN INVESTIGATIVE SAMPLE FROM SUSPECTED AREA NORTH OF
BUILDING 2522**

SAMPLE # (SPORT)	CONSTITUENT	RESULTS (UG/KG)
0673-1	ACETONE	9.95
	METHYLENE CHLORIDE	20.6
	XYLEMES (TOTAL)	2.10
	4,4' - DDT	2.21
	MERCURY	0.0286
	SILVER	141
	ARSENIC	759
	BARIUM	9700
	COBALT	239
	CHROMIUM	5710
	COPPER	288
	NICKEL	1240
	LEAD	5380
	ANTIMONY	281
	TIN	527
	VANADIUM	7660
	ZINC	29200
0673-2 (TRIP BLANK)	METHYLENE CHLORIDE	2.76

**INVESTIGATIVE SAMPLES FROM STAINED AREA ALONG FENCE LINE AND
DITCH (SUSPECTED AREA)**

SAMPLE # (SPORT)	SAMPLE # (NBCK)	CONSTITUENT	RESULTS (UG/KG)
0682-1	166S0001-01	TCE	ND
0682-2	166S0001-02	TCE	ND
0682-3	166S0002-01	TCE	ND
0682-4	166S0002-02	TCE	ND
0682-5	166S0003-01	TCE	ND
0682-6	166S0003-02	TCE	ND
0682-7	166S0004-01	TCE	ND
0682-8	166S0004-02	TCE	ND
0682-9	166S0005-01	TCE	ND
0682-10	166S0005-02	TCE	ND
0682-11	166S0006-01	TCE	ND
0682-12	166S0006-02	TCE	ND
0682-13	166S0007-01	TCE	ND
0682-14	166S0007-02	TCE	ND
0682-15	166S0008-01	TCE	ND
0682-16	166S0008-02	TCE	ND
0682-17	166S0009-01	TCE	ND
0682-18	166S0009-02	TCE	ND
0682-19	166S0010-01	TCE	ND
0682-20	166S0010-02	TCE	ND
0682-21	166C0010-02	TCE	ND
0682-22	TRIP BLANK	TCE	ND

ND = NOT DETECTED

WASTE CHARACTERIZATION SAMPLES

SAMPLE # (SPORT)	SAMPLE # (NBCK)	CONSTITUENT	TCLP RESULTS (UG/KG)
0692-1	166S0011-01	TCE	9.00
0692-2	166S0012-01	TCE	9.70
0692-3	166S0013-01	TCE	239
0692-4	166S0014-01	TCE	57.1
0692-5	166S0015-01	TCE	667
0692-6	TRIP BLANK	TCE	ND

ND = NOT DETECTED

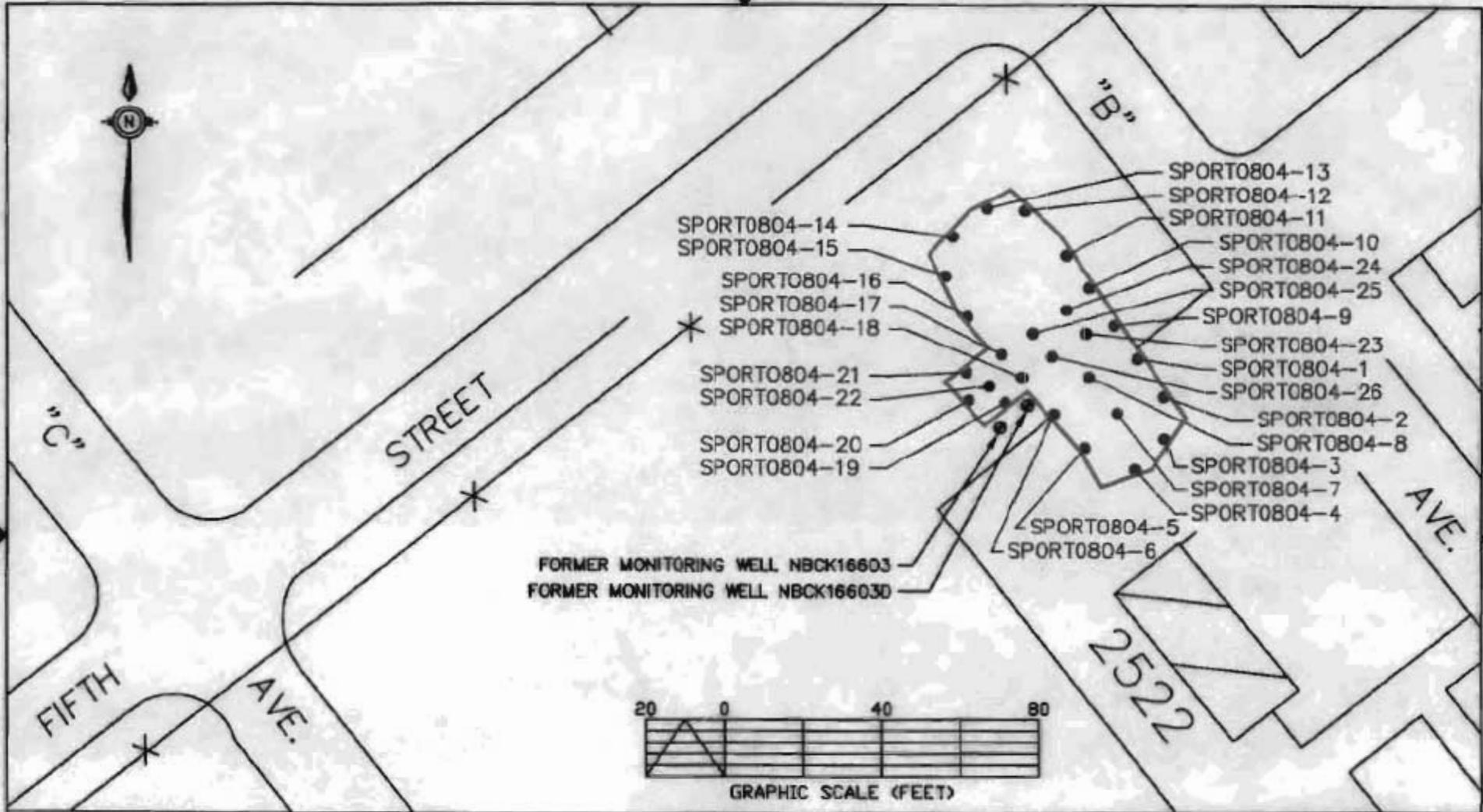
BOLD = VALUES EQUAL TO OR EXCEEDING THE 500 ppb MAXIMUM CONCENTRATION LIMIT FOR THE TOXICITY CHARACTERISTICS FOR TRICHLOROETHYLENE, IN ACCORDANCE WITH 40 CFR 261.24. TABLE 1

CONFIRMATION SOIL SAMPLE RESULTS FROM INITIAL EXCAVATION

SAMPLE # (SPORT)	SAMPLE # (NBCK)	CONSTITUENT	RESULTS (UG/KG)
0804-1	166S0017-01	TCE	98.8
0804-2	166S0018-01	TCE	4.81
0804-3	166S0019-01	TCE	17.2
0804-4	166S0020-01	TCE	28.7
0804-5	166S0021-01	TCE	19.9
0804-6	166S0022-01	TCE	68.1
0804-7	166S0023-01	TCE	71.2
0804-8	166S0024-01	TCE	3.63
0804-9	166S0025-01	TCE	387
0804-10	166S0026-01	TCE	959
0804-11	166S0027-01	TCE	0.572
0804-12	166S0028-01	TCE	0.614
0804-13	166S0029-01	TCE	ND
0804-14	166S0030-01	TCE	8.39
0804-15	166S0031-01	TCE	ND
0804-16	166S0032-01	TCE	1.72
0804-17	166S0033-01	TCE	161
0804-18	166S0034-01	TCE	9220
0804-19	166S0035-01	TCE	94.6
0804-20	166S0036-01	TCE	67.7
0804-21	166S0037-01	TCE	52.1
0804-22	166S0038-01	TCE	248
0804-23	166S0025-02	TCE	23.6
0804-24	166S0026-02	TCE	2.38
0804-25	166S0033-02	TCE	3520
0804-26	166S0034-02	TCE	5.53
0804-27	166T0038	TCE	ND

ND = NOT DETECTED

BOLD = VALUES EQUAL TO OR EXCEEDING THE 30 ppb LIMIT

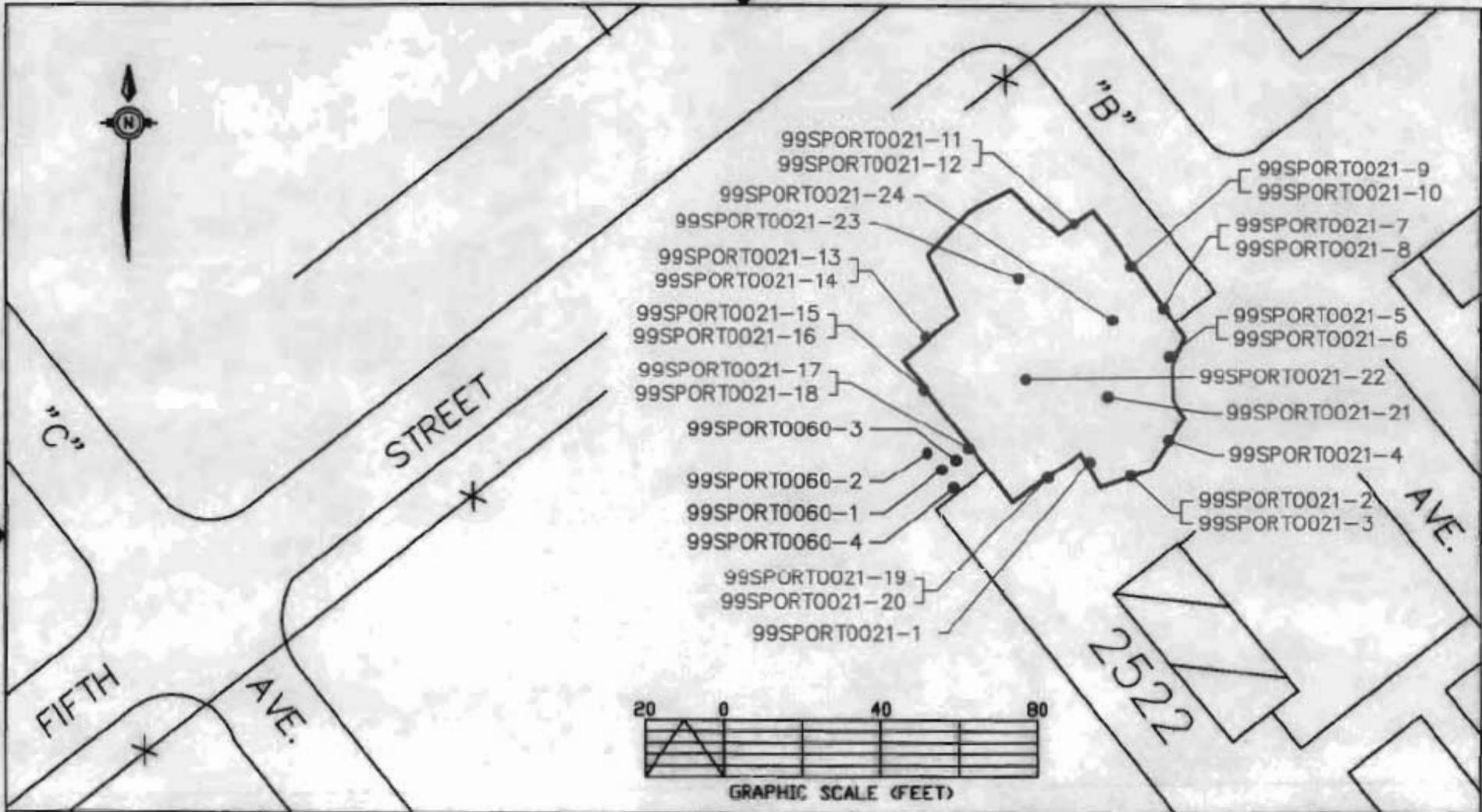


ENVIRONMENTAL DETACHMENT CHARLESTON

1599 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 2
SWMU 166 COMPLETION REPORT
SITE MAP WITH INITIAL EXCAVATION BOUNDARY
AND CONFIRMATORY SOIL SAMPLE LOCATIONS

DATE:	PREPARED BY:	REV:
02-10-99	J.I. BROWNLEE	-
SCALE: —		Sheet: _____



LEGEND

- FINAL EXCAVATION BOUNDARY
- CONFIRMATORY SOIL SAMPLE LOCATION
- DELINERATION SOIL SAMPLE LOCATION
- ** FENCE



ENVIRONMENTAL DETACHMENT CHARLESTON

1899 NORTH HOBSON AVENUE - BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

FIGURE 3
SWMU 166 COMPLETION REPORT
SITE MAP WITH CONFIRMATORY & DELINERATION SOIL
SAMPLE LOCATIONS AND FINAL EXCAVATION BOUNDARY

DATE: 02-12-98	PREPARED BY: J.I. BROWNLEE	REV: -
SCALE: —		SHEET: —

CONFIRMATION SOIL SAMPLES FROM EXPANDED EXCAVATION

SAMPLE # (99SPORT)	SAMPLE # (NBCK)	CONSTITUENT	RESULTS (UG/KG)
0021-1	166S0039-02	TCE	1.63
0021-2	166S0040-02	TCE	1.14
0021-3	166S0040-02	TCE	0.748
0021-4	166S0041-02	TCE	0.978
0021-5	166S0042-01	TCE	ND
0021-6	166S0042-02	TCE	19.8
0021-7	166S0043-01	TCE	9.86
0021-8	166S0043-02	TCE	ND
0021-9	166S0044-01	TCE	12.2
0021-10	166S0044-02	TCE	12.8
0021-11	166S0045-01	TCE	8.40
0021-12	166S0045-02	TCE	ND
0021-13	166S0046-01	TCE	3.83
0021-14	166S0046-02	TCE	0.596
0021-15	166S0047-01	TCE	0.980
0021-16	166S0047-02	TCE	1.10
0021-17	166S0048-01	TCE	1060
0021-18	166S0048-02	TCE	ND
0021-19	166S0049-01	TCE	3.36
0021-20	166S0049-02	TCE	1.04
0021-21	166S0050-02	TCE	3.82
0021-22	166S0051-02	TCE	44.5
0021-23	166S0052-02	TCE	981
0021-24	166S0053-02	TCE	158
0021-25	166S0054-02	TCE	ND

ND = NOT DETECTED

BOLD = VALUES EQUAL TO OR EXCEEDING THE 30 ppb LIMIT

DELINEATION SOIL SAMPLES

SAMPLE # (99SPORT)	SAMPLE # (NBCK)	CONSTITUENT	RESULTS (UG/KG)
0060-1	166S0055-01	TCE	ND
0060-2	166S0056-01	TCE	0.790
0060-3	166S0057-01	TCE	5.09
0060-4	166S0058-01	TCE	2.67
0060-5	166T00-59	TCE	ND

ND = NOT DETECTED

LETTERS
OF
RECORD

APPENDIX B

LETTERS

OF

RECORD



DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN
PORTSMOUTH, VIRGINIA, ENVIRONMENTAL DETACHMENT CHARLESTON
1898 NORTH HOBSON AVENUE, BUILDING 30
NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

IN REPLY REFER TO:
Ser: 123

FEB 16 1999

Mr. Paul Bergstrand
South Carolina Department of Health and Environmental Control
Bureau of Solid and Hazardous Waste Management
2600 Bull Street
Columbia, SC 29201

Subj: ABANDONMENT OF MONITORING WELLS 16603 AND 16603D,
SWMU 166

Ref: (a) South Carolina Well Standards and Regulations R.61-71

Dear Mr. Bergstrand,

Monitoring wells 16603 (15' in depth) and 16603D (35' in depth) were required to be abandoned to facilitate excavation of soil as part of the IM process at SWMU 166. Both wells were located near Building 2522 on the Naval Annex.

Please be informed that on October 28, 1998 Environmental Detachment Charleston personnel abandoned both wells in place as required by reference (a). Each well was over-drilling one foot pass the depth of the well and filled with cement grout. The abandonment was conducted under the supervision of Mr. Chuck Stutts, a well driller licensed by the state of South Carolina.

Questions and/or comments regarding abandonment of both wells should be addressed to Terry Lewis at (843) 743-2821 extension 147.

J.N.K. TUNSTALL

USEPA (D. Spariosu)
SCDHEC (J. Tapia)
SDIV (Code 1876)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Ground Water Protection Division

2600 Bull Street

Columbia, S.C. 29201

(803) 744-5331

Water Well Record

Well ABANDONED

LOCATION OF WELL

County:	System Number:
Charleston	16-603
Distance And Direction from Road Intersections	
Naval Annex N. Charleston, SC 261405	3 miles East on Remount Rd from Hwy 52
Street address & City of Well Location	
Sketch Map: (See example on back)	

2. CUTTING SAMPLES Yes No

Geophysical Logs Yes (Please enclose) No

FORMATION DESCRIPTION	THICKNESS	DEPTH TO BOTTOM OF STRATUM
-----------------------	-----------	----------------------------

WELL WAS OVERDRILLED AND

GROUTED.

4. OWNER OF WELL: Address		Care Taker Site Office 1690 Turnball Ave. Bldg NH 51, N. Charelston, SC 29405	
Telephone No.			
Engineer Address		(843) 743-9985	
Telephone No.			
5. WELL DEPTH (Completed)		Date Started _____ ft. Date Completed _____	
6. <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other			
7. USE: <input type="checkbox"/> Domestic <input type="checkbox"/> Public Supply Permit No. _____ <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/> _____			
8. CASING <input type="checkbox"/> Threaded <input type="checkbox"/> Welded		Diam. _____ Height: Above/Below Type: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other Surface _____ ft. ____ in. to ____ in. depth Weight _____ lbs./ft. ____ in. to ____ in. depth Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	
9. SCREEN: Type: <input checked="" type="checkbox"/> _____ Diam. _____ Slot/Gauze: <input checked="" type="checkbox"/> _____ Length: _____ Set Between _____ ft. and _____ ft. ____ ft. and _____ ft. NOTE: MULTIPLE SCREENS! USE SECOND SHEET Sieve Analysis <input type="checkbox"/> Yes (Please enclose) <input type="checkbox"/> No			
10. STATIC WATER LEVEL ____ ft. below land surface after 24 hours			
11. PUMPING LEVEL Below Land Surface ____ ft. after ____ hrs. Pumping ____ G.P.M. Pumping Test: <input type="checkbox"/> Yes (Please enclose) <input type="checkbox"/> No Yield _____			
12. WATER QUALITY Chemical Analysis <input type="checkbox"/> Yes <input type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input type="checkbox"/> No Please Enclose Lab Results.			
13. ARTIFICIAL FILTER (Gravel Pack) <input type="checkbox"/> Yes <input type="checkbox"/> No Installed from _____ ft. to _____ ft. Effective size _____ uniformity coefficient _____			
14. WELL GROUTED? <input type="checkbox"/> Yes <input type="checkbox"/> No Neat Cement <input type="checkbox"/> Sand Cement <input type="checkbox"/> Concrete <input type="checkbox"/> Other <input type="checkbox"/> Depth From _____ ft. to _____ ft.			
15. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ feet _____ direction Type Well disinfected <input type="checkbox"/> Yes Type _____ upon completion <input type="checkbox"/> No Amount _____			
16. PUMP: Date installed _____ not installed <input type="checkbox"/> Mfr. name _____ model no. _____ H.P. _____ Volts _____ length of drop pipe _____ ft. capacity _____ gpm TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal			
17. WATER WELL CONTRACTOR CERTIFICATION: _____ and this report is true to the best of my knowledge and belief. REGISTERED BUSINESS: ENVDETCHASN SC NAME: C. E. Stelle Signed: <i>C. E. Stelle</i> AUTHORIZED REPRESENTATIVE 1899 Hobson Ave. N. Chas., SC 29405 11-2-87-93			

Indicate water bearing zones

(use a 2nd sheet if needed)

REMARKS

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Ground Water Protection Division

2600 Bull Street

Columbia, S.C. 29201

(803) 734-5331

Water Well Record

WELL ABANDONED

LOCATION OF WELL

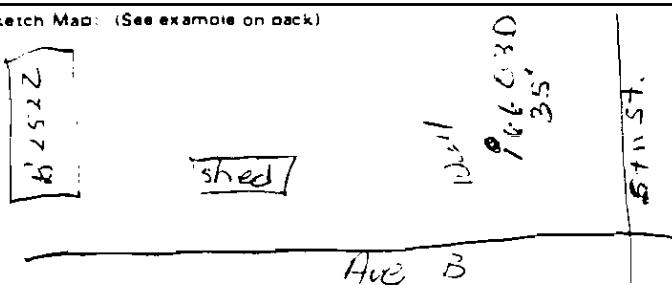
County: Charleston System Number: 166033

LANDSCAPE

Distance And Direction from Road Intersections
 Naval Annex 3 miles East on Remount Rd from N Hwy 52
 N. Charleston, SC 261405

Street address & City of Well Location

Sketch Map: (See example on back)



2. CUTTING SAMPLES Yes No

Geophysical Logs Yes (Please enclose) No

FORMATION DESCRIPTION	THICKNESS	DEPTH TO BOTTOM OF STRATUM
-----------------------	-----------	----------------------------

WELL WAS OVERDRILLED AND

GROUTED.

* Indicate water bearing zones

(use a 2nd sheet if needed)

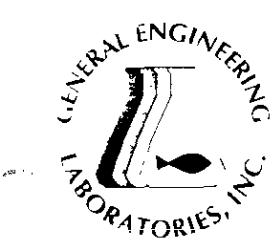
REMARKS

4. OWNER OF WELL:		Care Taker Site Office 1690 Turnball Ave. Bldg NH 51, N. Charelston, SC 29405	
Engineer Address		(843) 743-9985	
Telephone No.			
5. WELL DEPTH (Completed)		Date Started _____ Date Completed _____	
6. <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other			
7. USE:		<input type="checkbox"/> Domestic <input type="checkbox"/> Public Supply Permit No. _____ <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>	
8. CASING <input type="checkbox"/> Threaded <input type="checkbox"/> Welded		Height: Above/Below Diam. _____ Surface _____ ft. Type: <input type="checkbox"/> PVC <input type="checkbox"/> Reinforced <input type="checkbox"/> Steel <input type="checkbox"/> Other Weight _____ lbs/ft. in. to _____ ft. depth in. to _____ ft. depth Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No	
9. SCREEN:		Type: _____ Diam. _____ Slot/Gauze: _____ Length: _____ Set Between _____ ft. and _____ ft. NOTE: MULTIPLE SCREENS _____ ft. and _____ ft. Sieve Analysis <input type="checkbox"/> Yes (Please enclose) <input type="checkbox"/> No	
10. STATIC WATER LEVEL		ft. below land surface after 24 hours	
11. PUMPING LEVEL Below Land Surface		ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: <input type="checkbox"/> Yes (Please enclose) <input type="checkbox"/> No Yield _____	
12. WATER QUALITY		Chemical Analysis <input type="checkbox"/> Yes <input type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input type="checkbox"/> No Please Enclose Lab Results.	
13. ARTIFICIAL FILTER (Gravel Pack)		<input type="checkbox"/> Yes <input type="checkbox"/> No Installed from _____ ft. to _____ ft. Effective size _____ uniformity coefficient _____	
14. WELL GROUTED? <input type="checkbox"/> Yes <input type="checkbox"/> No		Neat Cement <input type="checkbox"/> Sand Cement <input type="checkbox"/> Concrete <input type="checkbox"/> Other <input type="checkbox"/> Depth From _____ ft. to _____ ft.	
15. NEAREST SOURCE OF POSSIBLE CONTAMINATION:		Feet _____ Direction _____ Type: Well disinfected <input type="checkbox"/> Yes Type _____ upon completion <input type="checkbox"/> No Amount _____	
16. PUMP: Date installed _____ not installed <input type="checkbox"/>		Mfr name _____ model no. _____ H.P. _____ Volts _____ length of drop pipe _____ ft. capacity _____ gpm	
TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Recirculating <input type="checkbox"/> Centrifugal			
17. WATER WELL CONTRACTOR'S CERTIFICATION: I certify that the information contained in this report is true to the best of my knowledge and belief.		1899 Hobson Ave. N. Chas., SC 29405	
REGISTERED BUSINESS: <u>ENVDETCHASN SC</u>		NAME: <u>L.E. Stultz</u> SIGNED: <u>10/13/98</u>	
SIGNED: <u>L.E. Stultz</u>		AUTHORIZED REPRESENTATIVE	

SAMPLING DOCUMENTATION

APPENDIX C

SAMPLING DOCUMENTATION



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 06, 1998

Page 1 of 9

Sample ID	:	SPORT0673-1
Lab ID	:	9804582-01
Matrix	:	Soil
Date Collected	:	04/22/98
Date Received	:	04/22/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	TCL	04/30/98	1953	121259	I
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.780	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	J	9.95	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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9804582-01



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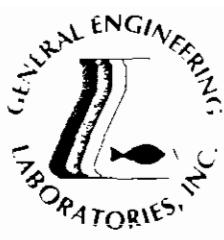
Page 2 of 9

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	TCL	04/30/98	1953	121259	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.428	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		20.6	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	J	2.10	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					
Extractable Organics											
<i>Appendix IX Acid Compounds - 18 items</i>											
2,3,4,6-Tetrachlorophenol	U	0.00	166	332	ug/kg	1.0	RLC	05/05/98	1155	120940	2
2,4,5-Trichlorophenol	U	0.00	166	332	ug/kg	1.0					
2,4,6-Trichlorophenol	U	0.00	166	332	ug/kg	1.0					
2,4-Dichlorophenol	U	0.00	166	332	ug/kg	1.0					
2,4-Dimethylphenol	U	0.00	166	332	ug/kg	1.0					

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SC	10120	10582
TN	02934	02934

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 06, 1998

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Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
2,4-Dinitrophenol	U	0.00	332	664	ug/kg	1.0					
2,6-Dichlorophenol	U	0.00	166	332	ug/kg	1.0	RLC	05/05/98	1155	120940	2
2-Chlorophenol	U	0.00	166	332	ug/kg	1.0					
2-Nitrophenol	U	0.00	166	332	ug/kg	1.0					
2-methyl-4,6-dinitrophenol	U	0.00	166	332	ug/kg	1.0					
2-sec-Butyl-4,6-Dinitrophenol	U	0.00	166	332	ug/kg	1.0					
4-Nitrophenol	U	0.00	166	332	ug/kg	1.0					
4-chloro-3-methyl phenol	U	0.00	166	332	ug/kg	1.0					
Hexachlorophene	U	0.00	8300	16600	ug/kg	1.0					
Pentachlorophenol	U	0.00	166	332	ug/kg	1.0					
Phenol	U	0.00	166	332	ug/kg	1.0					
m,p-Cresol	U	0.00	166	332	ug/kg	1.0					
o-Cresol	U	0.00	166	332	ug/kg	1.0					
Appendix IX Base/Neutral Compounds - 102 items											
1,2,4,5-Tetrachlorobenzene	U	0.00	166	332	ug/kg	1.0					
1,2,4-Trichlorobenzene	U	0.00	166	332	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	166	332	ug/kg	1.0					
1,3-Dichlorobenzene	U	0.00	166	332	ug/kg	1.0					
1,4-Dichlorobenzene	U	0.00	166	332	ug/kg	1.0					
1,4-Dioxane	U	0.00	166	332	ug/kg	1.0					
1,4-Naphthoquinone	U	0.00	166	332	ug/kg	1.0					
1-Naphthylamine	U	0.00	166	332	ug/kg	1.0					
2,4-Dinitrotoluene	U	0.00	166	332	ug/kg	1.0					
2,6-Dinitrotoluene	U	0.00	166	332	ug/kg	1.0					
2-Acetylaminofluorene	U	0.00	166	332	ug/kg	1.0					
2-Chloronaphthalene	U	0.00	166	332	ug/kg	1.0					
2-Methylnaphthalene	U	0.00	166	332	ug/kg	1.0					
2-Naphthylamine	U	0.00	166	332	ug/kg	1.0					
2-Picoline	U	0.00	166	332	ug/kg	1.0					
3,3'-Dichlorobenzidine	U	0.00	1660	1660	ug/kg	1.0					
3,3'-Dimethylbenzidine	U	0.00	830	1660	ug/kg	1.0					
3-Methylcholanthrene	U	0.00	166	332	ug/kg	1.0					
4-Bromophenyl phenyl ether	U	0.00	166	332	ug/kg	1.0					
4-Chloroaniline	U	0.00	199	332	ug/kg	1.0					
4-Chlorophenyl phenyl ether	U	0.00	166	332	ug/kg	1.0					

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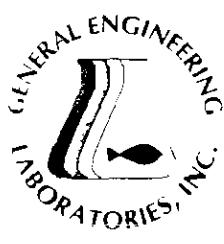
Page 4 of 9

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
4-Nitroquinoline-1-oxide	U	0.00	166	332	ug/kg	1.0					
4-aminobiphenyl	U	0.00	166	332	ug/kg	1.0	RLC	05/05/98	1155	120940	2
5-Nitro-o-toluidine	U	0.00	166	332	ug/kg	1.0					
7,12-Dimethylbenz(a)anthracene	U	0.00	166	332	ug/kg	1.0					
Acenaphthene	U	0.00	166	332	ug/kg	1.0					
Acenaphthylene	U	0.00	166	332	ug/kg	1.0					
Acetophenone	U	0.00	166	332	ug/kg	1.0					
Aniline	U	0.00	166	332	ug/kg	1.0					
Anthracene	U	0.00	166	332	ug/kg	1.0					
Aramite	U	0.00	166	332	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	166	332	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	166	332	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	166	332	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	166	332	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	166	332	ug/kg	1.0					
Benzyl Alcohol	U	0.00	166	332	ug/kg	1.0					
Butyl benzyl phthalate	U	0.00	166	332	ug/kg	1.0					
Chlorobenzilate	U	0.00	830	1660	ug/kg	1.0					
Chrysene	U	0.00	166	332	ug/kg	1.0					
Di-n-butyl phthalate	U	0.00	166	332	ug/kg	1.0					
Di-n-octyl phthalate	U	0.00	166	332	ug/kg	1.0					
Diallate	U	0.00	166	332	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	166	332	ug/kg	1.0					
Dibenzofuran	U	0.00	166	332	ug/kg	1.0					
Diethyl phthalate	U	0.00	166	332	ug/kg	1.0					
Dimethoate	U	0.00	830	1660	ug/kg	1.0					
Dimethyl phthalate	U	0.00	166	332	ug/kg	1.0					
Diphenylamine	U	0.00	166	332	ug/kg	1.0					
Disulfoton	U	0.00	166	332	ug/kg	1.0					
Ethyl Methanesulfonate	U	0.00	166	332	ug/kg	1.0					
Ethyl methacrylate	U	0.00	166	330	ug/kg	1.0					
Famphur	U	0.00	166	332	ug/kg	1.0					
Fluoranthene	U	0.00	166	332	ug/kg	1.0					
Fluorene	U	0.00	166	332	ug/kg	1.0					
Hexachlorobenzene	U	0.00	199	332	ug/kg	1.0					

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Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Hexachlorobutadiene	U	0.00	166	332	ug/kg	1.0					
Hexachlorocyclopentadiene	U	0.00	166	332	ug/kg	1.0	RLC	05/05/98	1155	120940	2
Hexachloroethane	U	0.00	166	332	ug/kg	1.0					
Hexachloropropene	U	0.00	166	332	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	166	332	ug/kg	1.0					
Isodrin	U	0.00	166	332	ug/kg	1.0					
Isophorone	U	0.00	166	332	ug/kg	1.0					
Isosafrole	U	0.00	166	332	ug/kg	1.0					
Kepone	U	0.00	166	332	ug/kg	1.0					
Methapyriene	U	0.00	830	1660	ug/kg	1.0					
Methyl Methanesulfonate	U	0.00	166	332	ug/kg	1.0					
N-Nitrosodi-n-butylamine	U	0.00	166	332	ug/kg	1.0					
N-Nitrosodiethylamine	U	0.00	166	332	ug/kg	1.0					
N-Nitrosodimethylamine	U	0.00	166	332	ug/kg	1.0					
N-Nitrosodiphenylamine	U	0.00	166	332	ug/kg	1.0					
N-Nitrosodipropylamine	U	0.00	166	332	ug/kg	1.0					
N-Nitrosomethylalkylamine	U	0.00	166	332	ug/kg	1.0					
N-Nitrosomorpholine	U	0.00	166	332	ug/kg	1.0					
N-Nitrosopiperidine	U	0.00	166	332	ug/kg	1.0					
N-Nitrosopyridine	U	0.00	166	332	ug/kg	1.0					
Naphthalene	U	0.00	166	332	ug/kg	1.0					
Nitrobenzene	U	0.00	166	332	ug/kg	1.0					
O,O,O-Triethylphosphorothioate	U	0.00	166	332	ug/kg	1.0					
Pentachlorobenzene	U	0.00	166	332	ug/kg	1.0					
Pentachloroethane	U	0.00	166	332	ug/kg	1.0					
Pentachloronitrobenzene	U	0.00	166	332	ug/kg	1.0					
Phenacetin	U	0.00	166	332	ug/kg	1.0					
Phenanthrene	U	0.00	166	332	ug/kg	1.0					
Pronamide	U	0.00	166	332	ug/kg	1.0					
Pyrene	U	0.00	166	332	ug/kg	1.0					
Pyridine	U	0.00	166	332	ug/kg	1.0					
Safrole	U	0.00	166	332	ug/kg	1.0					
Sulfotep	U	0.00	166	332	ug/kg	1.0					
Thionazin	U	0.00	166	332	ug/kg	1.0					
a,a-Dimethylphenethylamine	U	0.00	199	332	ug/kg	1.0					

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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 06, 1998

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Sample ID		: SPORT0673-1									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
bis(2-Chloroethoxy)methane	U	0.00	166	332	ug/kg	1.0					
bis(2-Chloroethyl) ether	U	0.00	166	332	ug/kg	1.0	RLC	05/05/98	1155	120940	2
bis(2-Ethylhexyl)phthalate	U	0.00	166	332	ug/kg	1.0					
m-Dinitrobenzene	U	0.00	166	332	ug/kg	1.0					
m-Nitroaniline	U	0.00	199	332	ug/kg	1.0					
o-Nitroaniline	U	0.00	166	332	ug/kg	1.0					
o-Toluidine	U	0.00	166	332	ug/kg	1.0					
p-Dimethylaminoazobenzene	U	0.00	166	332	ug/kg	1.0					
p-Nitroaniline	U	0.00	166	332	ug/kg	1.0					
p-Phenylenediamine	U	0.00	332	664	ug/kg	1.0					
sym-Trinitrobenzene	U	0.00	830	1660	ug/kg	1.0					
<i>Method 8280 - Dioxins - 9 items</i>											
1,2,3,4,6,7,8-HxCDD	U	0.00	0.102	1.00	ug/kg	1.0	MKP	05/03/98	1911	121357	3
1,2,3,4,7,8-HxCDD	U	0.00	0.106	1.00	ug/kg	1.0					
1,2,3,7,8-PCDD	U	0.00	0.0818	1.00	ug/kg	1.0					
2,3,7,8-TCDD	U	0.00	0.0802	1.00	ug/kg	1.0					
Octachlorodibenzo-p-dioxin	U	0.00	0.0719	1.00	ug/kg	1.0					
Other HpCDD Isomers	U	0.00	0.500	1.00	ug/kg	1.0					
Other HxCDD Isomers	U	0.00	0.500	1.00	ug/kg	1.0					
Other PCDD Isomers	U	0.00	0.500	1.00	ug/kg	1.0					
Other TCDD Isomers	U	0.00	0.500	1.00	ug/kg	1.0					
<i>Appendix IX - Herbicides - 3 items</i>											
2,4,5-T	U	0.00	1.00	3.00	ug/kg	1.0	JLS	05/05/98	0723	121074	4
2,4,5-TP	U	0.00	0.500	3.00	ug/kg	1.0					
2,4-D	U	0.00	1.00	3.00	ug/kg	1.0					
<i>Appendix IX - Pesticides & PCBs - 29 items</i>											
4,4'-DDD	U	0.598	0.664	1.33	ug/kg	1.0	SJ	05/05/98	2306	121618	5
4,4'-DDE	U	0.256	0.664	1.33	ug/kg	1.0					
4,4'-DDT		2.21	0.664	1.33	ug/kg	1.0					
Aldrin	U	0.00	0.332	0.670	ug/kg	1.0					
Chlordane	U	0.00	4.15	8.33	ug/kg	1.0					
Dieldrin	U	0.00	0.664	1.33	ug/kg	1.0					
Endosulfan I	U	0.00	0.332	0.670	ug/kg	1.0					
Endosulfan II	U	0.00	0.664	1.33	ug/kg	1.0					
Endosulfan sulfate	U	0.00	0.664	1.33	ug/kg	1.0					

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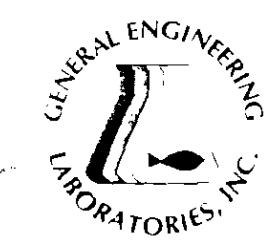
Page 7 of 9

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Endrin	U	0.00	0.664	1.33	ug/kg	1.0					
Endrin aldehyde	U	0.00	0.664	1.33	ug/kg	1.0	SJ	05/05/98	2306	121618	5
Heptachlor	U	0.00	0.332	0.670	ug/kg	1.0					
Heptachlor epoxide	U	0.00	0.332	0.670	ug/kg	1.0					
Methoxychlor	U	0.00	3.32	6.67	ug/kg	1.0					
PCB-1016	U	0.00	3.32	4.17	ug/kg	1.0					
PCB-1221	U	0.00	3.32	4.17	ug/kg	1.0					
PCB-1232	U	0.00	3.32	4.17	ug/kg	1.0					
PCB-1242	U	0.00	3.32	4.17	ug/kg	1.0					
PCB-1248	U	0.00	3.32	4.17	ug/kg	1.0					
PCB-1254	U	0.00	3.32	4.17	ug/kg	1.0					
PCB-1260	U	0.00	3.32	4.17	ug/kg	1.0					
Parathion	U	0.00	0.830	1.67	ug/kg	1.0					
Parathion, methyl	U	0.00	0.830	1.67	ug/kg	1.0					
Phorate	U	0.00	0.830	1.67	ug/kg	1.0					
Toxaphene	U	0.00	16.6	33.2	ug/kg	1.0					
alpha-BHC	U	0.00	0.332	0.670	ug/kg	1.0					
beta-BHC	U	0.00	0.332	0.670	ug/kg	1.0					
delta-BHC	U	0.00	0.332	0.670	ug/kg	1.0					
gamma-BHC	U	0.00	0.332	0.670	ug/kg	1.0					
Metals Analysis											
Mercury	J	0.0286	0.0137	0.0333	mg/kg	1.0	CRB	04/24/98	0144	120662	6
Silver	J	141	59.6	481	ug/kg	2.0	MBL	04/23/98	1315	120653	7
Arsenic		759	287	481	ug/kg	2.0					
Barium		9700	31.9	481	ug/kg	2.0					
Beryllium	U	15.5	21.5	481	ug/kg	2.0					
Cadmium	U	6.32	20.0	481	ug/kg	2.0					
Cobalt	J	239	64.6	481	ug/kg	2.0					
Chromium		5710	70.1	481	ug/kg	2.0					
Copper	J	288	127	481	ug/kg	2.0					
Nickel		1240	218	481	ug/kg	2.0					
Lead		5380	65.2	481	ug/kg	2.0					
Antimony	J	281	157	962	ug/kg	2.0					
Selenium	U	2.85	134	481	ug/kg	2.0					
Tin	J	527	282	962	ug/kg	2.0					

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Sample ID		: SPORT0673-1									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Thallium	U	-267	253	962	ug/kg	2.0					
Vanadium		7660	41.1	481	ug/kg	2.0	MBL	04/23/98	1315	120653	7
Zinc		29200	92.9	481	ug/kg	2.0					

The following prep procedures were performed:

GC/Ms Acid Compounds	RDH	04/28/98	1510	120940	8
GC/MS Base/Neutral Compounds	RDH	04/28/98	1510	120940	8
Dioxins & Furans	MKP	05/03/98	1700	121357	3
Herbicides	MAL	04/29/98	1425	121074	9
Pesticides	RDH	05/05/98	0900	121618	8
Mercury	VMM	04/24/98	2330	120662	6
TRACE	VMM	04/22/98	1600	12065310	

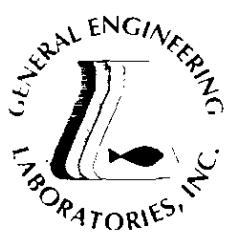
Surrogate Recovery	Test	Percent%	Acceptable Limits
2,4,6-Tribromophenol	APP 9 ACID	86.3	(40.3 - 122.)
2-Fluorophenol	APP 9 ACID	92.9	(25.0 - 121.)
Phenol-d6	APP 9 ACID	101.	(24.0 - 113.)
2-Fluorobiphenyl	APP 9 B/N	92.9	(30.0 - 115.)
Nitrobenzene-d5	APP 9 B/N	120.	(23.0 - 120.)
p-Terphenyl-d14	APP 9 B/N	89.9	(37.3 - 128.)
2,4-Dichlorophenylacetic acid	APP 9 HERBICIDES	115.	(51.9 - 180.)
4CMX	APP 9 PESTICIDES	58.9	(45.8 - 148.)
Decachlorobiphenyl	APP 9 PESTICIDES	37.3*	(40.0 - 160.)
Bromofluorobenzene	APP 9 VOA-8260	88.8	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	89.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	83.8	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270

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Sample ID : SPORT0673-1

M = Method	Method-Description
M 3	EPA 8280
M 4	EPA 8151 modified
M 5	EPA 8080
M 6	EPA 7471
M 7	EPA 6010A
M 8	EPA 3550
M 9	EPA 8150
M 10	EPA 3050

Notes:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

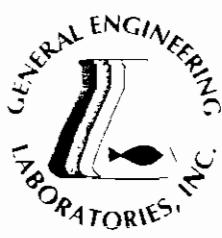
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
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Report Date: May 05, 1998

Page 1 of 3

Sample ID	:	SPORT0673-2
Lab ID	:	9804582-02
Matrix	:	GroundH2O
Date Collected	:	04/22/98
Date Received	:	04/22/98
Priority	:	Routine
Collector	:	Client

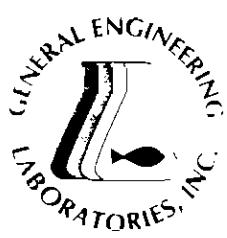
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/l	1.0	JEB	05/01/98	1523	121338	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/l	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/l	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/l	1.0					
Acetone	U	0.670	5.00	10.0	ug/l	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/l	1.0					
Acrolein	U	0.00	10.0	20.0	ug/l	1.0					
Acrylonitrile	U	0.00	10.0	20.0	ug/l	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/l	1.0					
Benzene	U	0.00	1.00	2.00	ug/l	1.0					
Bromoform	U	0.00	1.00	2.00	ug/l	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/l	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/l	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/l	1.0					

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 05, 1998

Page 2 of 3

Sample ID : SPORT0673-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/l	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/l	1.0	JEB	05/01/98	1523	121338	1
Chloroform	U	0.00	1.00	2.00	ug/l	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/l	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/l	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/l	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/l	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/l	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/l	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/l	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/l	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/l	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/l	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/l	1.0					
Methylene Chloride	J	2.76	1.00	5.00	ug/l	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/l	1.0					
Styrene	U	0.00	1.00	2.00	ug/l	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
Toluene	U	0.00	1.00	2.00	ug/l	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/l	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/l	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/l	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/l	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/l	1.0					
cis-1,3-Diehloropropylene	U	0.00	1.00	2.00	ug/l	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/l	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/l	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	93.6	(60.2 - 139.)
Dibromofluoromethane	APP 9 VOA-8260	93.5	(70.6 - 152.)
Toluene-d8	APP 9 VOA-8260	94.6	(68.4 - 135.)

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Report Date: May 05, 1998

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Sample ID	: SPORT0673-2		
Surrogate Recovery	Test	Percent %	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

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Karen Blakeney
Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9804582%

Report Date: May 06, 1998

Page 1 of 15

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Volatile Organics													
QC504273		BLANK	121259										
1,1-Dichloroethylene							0.00	ug/kg				TCL	04/30/98 1849
Benzene							0.00	ug/kg					
Chlorobenzene							0.00	ug/kg					
Toluene							0.00	ug/kg					
Trichloroethylene							0.00	ug/kg					
*Bromofluorobenzene								ug/kg		87.6	(53.3 - 154.)		
*Dibromofluoromethane								ug/kg		86.8	(63.4 - 136.)		
*Toluene-d8								ug/kg		84.2	(72.1 - 137.)		
1,1,1,2-Tetrachloroethane							0.00	ug/kg					
1,1,1-Trichloroethane							0.00	ug/kg					
1,1,2,2-Tetrachloroethane							0.00	ug/kg					
1,1,2-Trichloroethane							0.00	ug/kg					
1,1-Dichloroethane							0.00	ug/kg					
1,2,2-Trichloropropane							0.00	ug/kg					
1,2-Dibromo-3-chloropropane							0.00	ug/kg					
1,2-Dibromoethane							0.00	ug/kg					
1,2-Dichlorobenzene							0.00	ug/kg					
1,2-Dichloroethane							0.00	ug/kg					
1,2-Dichloropropane							0.00	ug/kg					
1,2-cis-Dichloroethylene							0.00	ug/kg					
1,2-trans-Dichloroethylene							0.00	ug/kg					
2-Butanone							0.00	ug/kg					
2-Hexanone							0.00	ug/kg					
4-Methyl-2-pentanone							0.00	ug/kg					
Acetone							4.30	ug/kg					
Acetonitrile							0.00	ug/kg					
Acrolein							0.00	ug/kg					
Acrylonitrile							0.00	ug/kg					
Allyl Chloride							0.00	ug/kg					
Bromoform							0.00	ug/kg					
Carbon Disulfide							0.00	ug/kg					
Carbon Tetrachloride							0.00	ug/kg					
Chlorodibromomethane							0.00	ug/kg					
Chloroethane							0.00	ug/kg					
Chloroform							0.00	ug/kg					
Chloroprene							0.00	ug/kg					
Dibromomethane							0.00	ug/kg					
Dichlorobromomethane							0.00	ug/kg					

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cc: NPWC00197

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Dichlorodifluoromethane						0.00	ug/kg				TCL	04/30/98	1849
Ethylbenzene						0.650	ug/kg						
Isobutyl Alcohol						0.00	ug/kg						
Methacrylonitrile						0.00	ug/kg						
Methyl Bromide						0.00	ug/kg						
Methyl Chloride						0.00	ug/kg						
Methyl Iodide						0.00	ug/kg						
Methyl Methacrylate						0.00	ug/kg						
Methylene Chloride						2.73	ug/kg						
Propionitrile						0.00	ug/kg						
Styrene						0.00	ug/kg						
Tetrachloroethylene						0.00	ug/kg						
Trichlorofluoromethane						0.00	ug/kg						
Vinyl Acetate						0.00	ug/kg						
Vinyl chloride						0.00	ug/kg						
Xylenes (TOTAL)						3.21	ug/kg						
bis(2-Chloromethyl)ether						0.00	ug/kg						
cis-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,4-Dichloro-1-butene						0.00	ug/kg						
QC504524	BLANK	121338									JEB	05/01/98	1451
1,1-Dichloroethylene						0.00	ug/l						
Benzene						0.00	ug/l						
Chlorobenzene						0.00	ug/l						
Toluene						0.00	ug/l						
Trichloroethylene						0.00	ug/l						
*Bromotrifluorobenzene							ug/l		92.9	(60.2 - 139.)			
*Dibromo trifluoromethane							ug/l		93.2	(70.6 - 152.)			
*Toluene-d8							ug/l		94.0	(68.4 - 135.)			
1,1,1,2-Tetrachloroethane						0.00	ug/l						
1,1,1-Trichloroethane						0.00	ug/l						
1,1,2,2-Tetrachloroethane						0.00	ug/l						
1,1,2-Trichloroethane						0.00	ug/l						
1,1-Dichloroethane						0.00	ug/l						
1,2,3-Trichloropropane						0.00	ug/l						
1,2-Dibromo-3-chloropropane						0.00	ug/l						
1,2-Dibromoethane						0.00	ug/l						
1,2-Dichlorobenzene						0.00	ug/l						
1,2-Dichloroethane						0.00	ug/l						
1,2-Dichloropropane						0.00	ug/l						

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1,1-cis-Dichloroethylene						0.00	ug/l				JEB	05/01/98	1451
1,2-trans-Dichloroethylene						0.00	ug/l						
2-Butanone						0.530	ug/l						
2-Hexanone						0.870	ug/l						
4-Methyl-2-pentanone						0.520	ug/l						
Acetone						1.21	ug/l						
Acetonitrile						0.00	ug/l						
Acrolein						0.00	ug/l						
Acrylonitrile						0.00	ug/l						
Allyl Chloride						0.00	ug/l						
Bromoform						0.00	ug/l						
Carbon Disulfide						0.00	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chlorodibromoethane						0.00	ug/l						
Chloroethane						0.00	ug/l						
Chloroform						0.00	ug/l						
Chloroprene						0.00	ug/l						
Dibromomethane						0.00	ug/l						
Dichlorobromomethane						0.00	ug/l						
Dichlorodifluoromethane						0.00	ug/l						
Ethylbenzene						0.00	ug/l						
Isobutyl Alcohol						0.00	ug/l						
Methacrylonitrile						0.00	ug/l						
Methyl Bromide						0.00	ug/l						
Methyl Chloride						0.00	ug/l						
Methyl Iodide						0.00	ug/l						
Methyl Methacrylate						0.00	ug/l						
Methylene Chloride						4.25	ug/l						
Propionitrile						0.00	ug/l						
Styrene						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Trichlorofluoromethane						0.00	ug/l						
Vinyl Acetate						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
Xylenes (TOTAL)						0.00	ug/l						
bis(2-Chloromethyl)ether						0.00	ug/l						
cis-1,3-Dichloropropylene						0.00	ug/l						
trans-1,3-Dichloropropylene						0.00	ug/l						
trans-1,4-Dichloro-2-butene						0.00	ug/l						

QC504274 9804582-01PS 121259

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1,1-Dichloroethylene			50	0.00		53.9	ug/kg		108	(67.9 - 136.)	TCL	05/01/98	1038
Benzene			50	0.00		47.8	ug/kg		95.6	(62.2 - 131.)	TCL	05/01/98	1038
Chlorobenzene			50	0.00		46.9	ug/kg		93.8	(74.4 - 127.)			
Toluene			50	0.00		46.8	ug/kg		93.6	(67.0 - 143.)			
Trichloroethylene			50	0.00		44.2	ug/kg		88.4	(63.2 - 129.)			
*BromoFluorobenzene			100			92.9	ug/kg		92.9	(53.3 - 154.)			
*DibromoFluoromethane			100			94.1	ug/kg		94.1	(63.4 - 136.)			
*Toluene-d8			100			93.6	ug/kg		93.6	(72.1 - 137.)			
QC504525	9804582-02PS	121338											
1,1-Dichloroethylene			50	0.00		48.8	ug/l		97.5	(59.2 - 141.)	JEB	05/01/98	1556
Benzene			50	0.00		42.4	ug/l		84.7	(63.3 - 134.)			
Chlorobenzene			50	0.00		38.8	ug/l		77.6**	(77.8 - 125.)			
Toluene			50	0.00		43.6	ug/l		87.1	(71.6 - 125.)			
Trichloroethylene			50	0.00		43.0	ug/l		86.0	(65.5 - 130.)			
*BromoFluorobenzene			50			47.1	ug/l		94.2	(60.2 - 139.)			
*DibromoFluoromethane			50			46.7	ug/l		93.4	(70.6 - 152.)			
*Toluene-d8			50			46.8	ug/l		93.6	(68.4 - 135.)			
QC504525	9804582-01PSD	121259											
1,1-Dichloroethylene			50	0.00		43.8	ug/kg	20.7	87.6	(0.00 - 21.0)	TCL	04/30/98	2056
Benzene			50	0.00		41.1	ug/kg	15.1	82.2	(0.00 - 16.0)			
Chlorobenzene			50	0.00		38.8	ug/kg	18.9**	77.6	(0.00 - 15.0)			
Toluene			50	0.00		38.3	ug/kg	20.0	76.6	(0.00 - 21.0)			
Trichloroethylene			50	0.00		38.0	ug/kg	15.1	76.0	(0.00 - 20.0)			
*BromoFluorobenzene			100			79.5	ug/kg		79.5	(53.3 - 154.)			
*DibromoFluoromethane			100			86.2	ug/kg		86.2	(63.4 - 136.)			
*Toluene-d8			100			82.1	ug/kg		82.1	(72.1 - 137.)			
QC504526	9804582-02PSD	121338											
1,1-Dichloroethylene			50	0.00		59.4	ug/l	19.7	119	(0.00 - 25.1)	JEB	05/01/98	1628
Benzene			50	0.00		51.3	ug/l	19.0	103	(0.00 - 31.1)			
Chlorobenzene			50	0.00		47.2	ug/l	19.5	94.4	(0.00 - 22.7)			
Toluene			50	0.00		53.0	ug/l	19.5	106	(0.00 - 22.8)			
Trichloroethylene			50	0.00		52.1	ug/l	19.2	104	(0.00 - 36.9)			
*BromoFluorobenzene			50			47.6	ug/l		95.2	(60.2 - 139.)			
*DibromoFluoromethane			50			46.0	ug/l		92.0	(70.6 - 152.)			
*Toluene-d8			50			47.3	ug/l		94.6	(68.4 - 135.)			

* represent a surrogate.

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Extractable Organics													
QCS03059		BLANK	120940										RLC 05/05/98 1003
1,2,4-Trichlorobenzene						0.00	ug/kg						
1,4-Dichlorobenzene						0.00	ug/kg						
2,4-Dinitrotoluene						0.00	ug/kg						
2-Chlorophenol						0.00	ug/kg						
4-Nitrophenol						0.00	ug/kg						
4-chloro-3-methyl phenol						0.00	ug/kg						
Acenaphthene						0.00	ug/kg						
N-Nitrosodipropylamine						0.00	ug/kg						
Pentachlorophenol						0.00	ug/kg						
Phenol						0.00	ug/kg						
Pyrene						0.00	ug/kg						
*2,4,6-Tribromophenol							ug/kg	80.3	(40.3 - 122.)				
*1-Fluorobiphenyl							ug/kg	83.8	(30.0 - 115.)				
*2-Fluorophenol							ug/kg	80.8	(25.0 - 121.)				
*Nitrobenzene-d5							ug/kg	106	(23.0 - 120.)				
*Phenol-d6							ug/kg	88.3	(24.0 - 113.)				
*p-Terphenyl-d14							ug/kg	85.7	(37.3 - 128.)				
1,2,4,5-Tetrachlorobenzene						0.00	ug/kg						
1,2-Dichlorobenzene						0.00	ug/kg						
1,3-Dichlorobenzene						0.00	ug/kg						
1,4-Dioxane						0.00	ug/kg						
1,4-Naphthoquinone						0.00	ug/kg						
1-Naphthylamine						0.00	ug/kg						
2,3,4,6-Tetrachlorophenol						0.00	ug/kg						
2,4,5-Trichlorophenol						0.00	ug/kg						
2,4,6-Trichlorophenol						0.00	ug/kg						
2,4-Dichlorophenol						0.00	ug/kg						
2,4-Dimethylphenol						0.00	ug/kg						
2,4-Dinitrophenol						0.00	ug/kg						
2,6-Dichlorophenol						0.00	ug/kg						
2,6-Dinitrotoluene						0.00	ug/kg						
2-Acetylaminofluorene						0.00	ug/kg						
2-Chloronaphthalene						0.00	ug/kg						
2-Methylnaphthalene						0.00	ug/kg						
2-Naphthylamine						0.00	ug/kg						
2-Nitrophenol						0.00	ug/kg						
2-Picoline						0.00	ug/kg						
2-methyl-4,6-dinitrophenol						0.00	ug/kg						

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2-sec-Butyl-4,6-Dinitrophenol						0.00	ug/kg					RLC	05/05/98 1003
3,3'-Dichlorobenzidine						0.00	ug/kg						
3,3'-Dimethylbenzidine						0.00	ug/kg						
3-Methylcholanthrene						0.00	ug/kg						
4-Bromophenyl phenyl ether						0.00	ug/kg						
4-Chloroaniline						0.00	ug/kg						
4-Chlorophenyl phenyl ether						0.00	ug/kg						
4-Nitroquinoline-1-oxide						0.00	ug/kg						
4-aminobiphenyl						0.00	ug/kg						
5-Nitro-o-toluidine						0.00	ug/kg						
7,12-Dimethylbenz(a)anthracene						0.00	ug/kg						
Acenaphthylene						0.00	ug/kg						
Acetophenone						0.00	ug/kg						
Aniline						0.00	ug/kg						
Anthracene						0.00	ug/kg						
Aramite						0.00	ug/kg						
Benzo(a)anthracene						0.00	ug/kg						
Benzo(a)pyrene						0.00	ug/kg						
Benzo(b)fluoranthene						0.00	ug/kg						
Benzo(ghi)perylene						0.00	ug/kg						
Benzo(k)fluoranthene						0.00	ug/kg						
Benzyl Alcohol						0.00	ug/kg						
Butyl benzyl phthalate						0.00	ug/kg						
Chlorobenzilate						0.00	ug/kg						
Chrysene						0.00	ug/kg						
Di-n-butyl phthalate						0.00	ug/kg						
Di-n-octyl phthalate						0.00	ug/kg						
Diallate						0.00	ug/kg						
Dibenzo(a,h)anthracene						0.00	ug/kg						
Dibenzofuran						0.00	ug/kg						
Diethyl phthalate						0.00	ug/kg						
Dimethoate						0.00	ug/kg						
Dimethyl phthalate						0.00	ug/kg						
Diphenylamine						0.00	ug/kg						
Disulfoton						0.00	ug/kg						
Ethyl Methanesulfonate						0.00	ug/kg						
Ethyl methacrylate						0.00	ug/kg						
Famphur						0.00	ug/kg						
Fluoranthene						0.00	ug/kg						
Fluorene						0.00	ug/kg						

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Hexachlorobenzene						0.00	ug/kg					RLC	05/05/98 1003
Hexachlorobutadiene						0.00	ug/kg						
Hexachlorocyclopentadiene						0.00	ug/kg						
Hexachloroethane						0.00	ug/kg						
Hexachlorophene						0.00	ug/kg						
Hexachloropropene						0.00	ug/kg						
Indeno(1,2,3-c,d)pyrene						0.00	ug/kg						
Isodrin						0.00	ug/kg						
Isophorone						0.00	ug/kg						
Isosafrole						0.00	ug/kg						
Kepone						0.00	ug/kg						
Methapynlene						0.00	ug/kg						
Methyl Methanesulfonate						0.00	ug/kg						
N-Nitrosodi-n-butylamine						0.00	ug/kg						
N-Nitrosodiethylamine						0.00	ug/kg						
N-Nitrosodimethylamine						0.00	ug/kg						
N-Nitrosodiphenylamine						0.00	ug/kg						
N-Nitrosomethylbutylamine						0.00	ug/kg						
N-Nitrosomorpholine						0.00	ug/kg						
N-Nitrosopiperidine						0.00	ug/kg						
N-Nitrosopyrrolidine						0.00	ug/kg						
Naphthalene						0.00	ug/kg						
Nitrobenzene						0.00	ug/kg						
O,O,O-Triethylphosphorothioate						0.00	ug/kg						
Pentachlorobenzene						0.00	ug/kg						
Pentachloroethane						0.00	ug/kg						
Pentachloronitrobenzene						0.00	ug/kg						
Phenacetin						0.00	ug/kg						
Phenanthrene						0.00	ug/kg						
Pronamide						0.00	ug/kg						
Pyridine						0.00	ug/kg						
Safrole						0.00	ug/kg						
Sulfotetapp						0.00	ug/kg						
Thioniazin						0.00	ug/kg						
alpha,alpha-Dimethylphenerhylamine						0.00	ug/kg						
bis(2-Chloroethoxy)methane						0.00	ug/kg						
bis(2-Chloroethyl) ether						0.00	ug/kg						
bis(2-Ethylhexyl)phthalate						0.00	ug/kg						
m,p-Cresol						0.00	ug/kg						
m-Dinitrobenzene						0.00	ug/kg						

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m-Nitroaniline						0.00	ug/kg				RLC	05/05/98	1003
o-Cresol						0.00	ug/kg						
o-Nitroaniline						0.00	ug/kg						
o-Toluidine						0.00	ug/kg						
p-Dimethylaminoazobenzene						0.00	ug/kg						
p-Nitroaniline						0.00	ug/kg						
p-Phenylenediamine						0.00	ug/kg						
sym-Trinitrobenzene						0.00	ug/kg						
QC503060	LCS	120940											
1,2,4-Trichlorobenzene			1650			1480	ug/kg	89.7	(48.6 - 117.)	RLC	05/05/98	1031	
1,4-Dichlorobenzene			1650			1390	ug/kg	84.4	(47.8 - 105.)				
2,4-Dinitrotoluene			1650			1490	ug/kg	90.4	(51.1 - 120.)				
2-Chlorophenol			3300			2760	ug/kg	83.5	(51.2 - 96.4)				
4-Nitrophenol			3300			3590	ug/kg	109	(37.0 - 113.)				
4-chloro-3-methyl phenol			3300			2860	ug/kg	86.6	(56.1 - 109.)				
Acenaphthene			1650			1410	ug/kg	85.4	(55.3 - 116.)				
N-Nitrosodipropylamine			1650			1870	ug/kg	113	(38.1 - 134.)				
Pentachlorophenol			3300			2980	ug/kg	90.3	(37.0 - 134.)				
Phenol			3300			2930	ug/kg	88.7	(29.2 - 103.)				
Pyrene			1650			1480	ug/kg	89.7	(60.6 - 115.)				
*2,4,6-Tribromophenol			3300			3090	ug/kg	93.5	(40.3 - 122.)				
*2-Fluorobiphenyl			1650			1370	ug/kg	83.2	(30.0 - 115.)				
*2-Fluorophenol			3300			2960	ug/kg	89.7	(25.0 - 121.)				
*Nitrobenzene-d5			1650			1810	ug/kg	110	(23.0 - 120.)				
*Phenol-d6			3300			2590	ug/kg	78.6	(24.0 - 113.)				
*p-Terphenyl-d14			1650			1310	ug/kg	79.3	(37.3 - 128.)				
QC503061	9804582-01MS	120940											
1,2,4-Trichlorobenzene			1670	0.00		1360	ug/kg	81.5	(29.5 - 133.)	RLC	05/05/98	1059	
1,4-Dichlorobenzene			1670	0.00		1280	ug/kg	76.5	(23.3 - 117.)				
2,4-Dinitrotoluene			1670	0.00		1360	ug/kg	81.7	(40.1 - 132.)				
2-Chlorophenol			3330	0.00		2670	ug/kg	80.1	(38.0 - 115.)				
4-Nitrophenol			3330	0.00		3460	ug/kg	104	(30.0 - 132.)				
4-chloro-3-methyl phenol			3330	0.00		3110	ug/kg	93.5	(38.0 - 136.)				
Acenaphthene			1670	0.00		1340	ug/kg	80.5	(47.0 - 139.)				
N-Nitrosodipropylamine			1670	0.00		1810	ug/kg	108	(19.8 - 148.)				
Pentachlorophenol			3330	0.00		3180	ug/kg	95.6	(22.9 - 146.)				
Phenol			3330	0.00		2760	ug/kg	82.8	(25.5 - 112.)				
Pyrene			1670	0.00		1520	ug/kg	91.0	(52.0 - 115.)				
*2,4,6-Tribromophenol			3330			2740	ug/kg	82.3	(40.3 - 122.)				
*2-Fluorobiphenyl			1670			1380	ug/kg	82.4	(30.0 - 115.)				

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*2-Fluorophenol			3330			2840	ug/kg		85.4	(25.0 - 121.)	RLC	05/05/98	1059
*Nitrobenzene-d5			1670			1770	ug/kg		106	(23.0 - 120.)			
*Phenol-d6			3330			2690	ug/kg		80.7	(24.0 - 113.)			
*p-Terphenyl-d14			1670			1310	ug/kg		78.4	(37.3 - 128.)			
QC503062 9804582-01MSD		120940											
1,2,4-Trichlorobenzene			1670	0.00		1510	ug/kg	10.3	90.4	(0.00 - 30.0)	RLC	05/05/98	1127
1,4-Dichlorobenzene			1670	0.00		1400	ug/kg	9.26	84.0	(0.00 - 30.0)			
2,4-Dinitrotoluene			1670	0.00		1520	ug/kg	11.0	91.2	(0.00 - 30.0)			
2-Chlorophenol			3330	0.00		2870	ug/kg	7.37	86.2	(0.00 - 30.0)			
+Nitrophenol			3330	0.00		4250	ug/kg	20.3	128	(0.00 - 30.0)			
+chloro-3-methyl phenol			3330	0.00		0.00	ug/kg	200**	0.00	(0.00 - 30.0)			
Aceanaphthene			1670	0.00		1510	ug/kg	11.7	90.5	(0.00 - 30.0)			
N-Nitrosodipropylamine			1670	0.00		1970	ug/kg	8.51	118	(0.00 - 30.0)			
Pentachlorophenol			3330	0.00		3640	ug/kg	13.3	109	(0.00 - 30.0)			
Phenol			3330	0.00		2940	ug/kg	6.41	88.3	(0.00 - 30.0)			
Pyrene			1670	0.00		1670	ug/kg	9.40	100	(0.00 - 30.0)			
*2,4,6-Tribromophenol			3330			3110	ug/kg		93.3	(40.3 - 122.)			
*2-Fluorobiphenyl			1670			1530	ug/kg		91.5	(30.0 - 115.)			
*2-Fluorophenol			3330			3080	ug/kg		92.4	(25.0 - 121.)			
*Nitrobenzene-d5			1670			1920	ug/kg		115	(23.0 - 120.)			
*Phenol-d6			3330			2870	ug/kg		86.2	(24.0 - 113.)			
*p-Terphenyl-d14			1670			1470	ug/kg		87.8	(37.3 - 128.)			
QC504576 BLANK		121357											
1,2,3,4,6,7,8-HxCDD						0.00	ug/kg						
1,2,3,4,7,8-HxCDD						0.00	ug/kg						
2,3,7,8-TCDD						0.00	ug/kg						
Octachlorodibenzo-p-dioxin						0.00	ug/kg						
Other HpCDD Isomers						0.00	ug/kg						
Other HxCDD Isomers						0.00	ug/kg						
Other PCDD Isomers						0.00	ug/kg						
Other TCDD Isomers						0.00	ug/kg						
1,2,3,4,6,7,8-HpCDD						0.00	ug/kg						
1,2,3,4,7,8-HxCDD						0.00	ug/kg						
1,2,3,7,8-PCDD						0.00	ug/kg						
QC504577 9804582-01DUP		121357											
1,2,3,4,6,7,8-HpCDD						0.00	ug/kg	0.00					
1,2,3,4,7,8-HxCDD						0.00	ug/kg	0.00					
2,3,7,8-TCDD						0.00	ug/kg	0.00					
Octachlorodibenzo-p-dioxin						0.00	ug/kg	0.00					
Other HpCDD Isomers						0.00	ug/kg	0.00					

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9804582%

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD %	REC%	Range	Analyst	Date	Time
Other HxCDD Isomers				0.00		0.00	ug/kg	0.00			MKP	05/03/98	1946
Other PCDD Isomers				0.00		0.00	ug/kg	0.00					
Other TCDD Isomers				0.00		0.00	ug/kg	0.00					
1,2,3,4,6,7,8-HpCDD				0.00		0.00	ug/kg	0.00					
1,2,3,4,7,8-HxCDD				0.00		0.00	ug/kg	0.00					
1,2,3,7,8-PCDD				0.00		0.00	ug/kg	0.00					
QC504578 9804829-01 DUP		121357											
1,2,3,4,6,7,8-HpCDD				0.00		0.00	ug/kg	0.00			MKP	05/03/98	2055
1,2,3,4,7,8-HxCDD				0.00		0.00	ug/kg	0.00					
1,3,7,8-TCDD				0.00		0.00	ug/kg	0.00					
1,2,3,4,6,7,8-HpCDD				0.00		0.00	ug/kg	0.00					
1,2,3,4,7,8-HxCDD				0.00		0.00	ug/kg	0.00					
1,2,3,7,8-PCDD				0.00		0.00	ug/kg	0.00					
QC503559 BLANK		121074									JLS	05/05/98	0508
2,4,5-T						0.00	ug/kg						
2,4,5-TP						0.00	ug/kg						
2,4-D						0.00	ug/kg						
*2,4-Dichlorophenylacetic acid							ug/kg		114	(-)			
QCS03560 LCS		121074									JLS	05/05/98	0542
2,4,5-T				20		11.9	ug/kg		59.6	(-)			
2,4,5-TP				20		9.66	ug/kg		48.3	(-)			
2,4-D				20		13.6	ug/kg		67.9	(-)			
*2,4-Dichlorophenylacetic acid				99.8		126	ug/kg		126	(-)			
QC503561 9804582-01MS		121074									JLS	05/05/98	0615
2,4,5-T				19.9	0.00	9.96	ug/kg		50.0	(-)			
2,4,5-TP				19.9	0.00	8.51	ug/kg		42.7	(-)			
2,4-D				19.9	0.00	10.4	ug/kg		52.2	(-)			
*2,4-Dichlorophenylacetic acid				99.6		140	ug/kg		141	(-)			
QCS03562 9804582-01MSD		121074									JLS	05/05/98	0649
2,4,5-T				21.2	0.00	9.87	ug/kg	7.20	46.6	(-)			
2,4,5-TP				21.2	0.00	8.92	ug/kg	1.58	42.1	(-)			
2,4-D				21.2	0.00	10.2	ug/kg	8.15	48.1	(-)			
*2,4-Dichlorophenylacetic acid				106		109	ug/kg		103	(-)			
QC505499 BLANK		121618									SJ	05/05/98	2000
4,4'-DDT						0.00	ug/kg						
Aldrin						0.00	ug/kg						
Dieldrin						0.00	ug/kg						
Endrin						0.00	ug/kg						
Heptachlor						0.00	ug/kg						
gamma-BHC						0.00	ug/kg						

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
*4CMX							ug/kg		55.9	(45.8 - 148.)	SJ	05/05/98	2000
*Decachlorobiphenyl							ug/kg		51.4	(40.0 - 160.)			
4,4'-DDD						0.00	ug/kg						
4,4'-DDE						0.00	ug/kg						
Chlordane						0.00	ug/kg						
Endosulfan I						0.00	ug/kg						
Endosulfan II						0.00	ug/kg						
Endosulfan sulfate						0.00	ug/kg						
Endrin aldehyde						0.00	ug/kg						
Heptachlor epoxide						0.00	ug/kg						
Methoxychlor						0.00	ug/kg						
PCB-1016						0.00	ug/kg						
PCB-1221						0.00	ug/kg						
PCB-1232						0.00	ug/kg						
PCB-1242						0.00	ug/kg						
PCB-1248						0.00	ug/kg						
PCB-1254						0.00	ug/kg						
PCB-1260						0.00	ug/kg						
Parathion						0.00	ug/kg						
Parathion, methyl						0.00	ug/kg						
Phorate						0.00	ug/kg						
Toxaphene						0.00	ug/kg						
alpha-BHC						0.00	ug/kg						
beta-BHC						0.00	ug/kg						
delta-BHC						0.00	ug/kg						
QC505500		LCS 121618											
4,4'-DDT				8.33		7.55	ug/kg		90.6	(34.7 - 153.)	SJ	05/05/98	2046
Aldrin				3.33		2.33	ug/kg		85.0	(32.7 - 143.)			
Dieldrin				8.33		7.38	ug/kg		88.6	(34.3 - 150.)			
Endrin				8.33		8.34	ug/kg		100	(31.2 - 147.)			
Heptachlor				3.33		3.22	ug/kg		96.8	(36.3 - 159.)			
gamma-BHC				3.33		3.05	ug/kg		91.6	(39.7 - 154.)			
*4CMX				6.66		4.01	ug/kg		60.2	(45.8 - 148.)			
*Decachlorobiphenyl				6.66		3.51	ug/kg		52.7	(40.0 - 160.)			
QC505501	9804582-01MS	121618											
4,4'-DDT				8.33	0.00	8.17	ug/kg		71.5	(44.2 - 176.)	SJ	05/05/98	2133
Aldrin				3.33	0.00	2.05	ug/kg		61.5	(40.4 - 176.)			
Dieldrin				8.33	0.00	5.38	ug/kg		64.6	(48.7 - 158.)			
Endrin				8.33	0.00	5.78	ug/kg		69.4	(40.7 - 170.)			
Heptachlor				3.33	0.00	2.62	ug/kg		78.6	(49.9 - 167.)			

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
gamma-BHC			3.33	0.00		3.32	ug/kg		99.8	(45.4 - 183.)	SJ	05/05/98	2133
*4CMX			6.66			3.82	ug/kg		57.4	(45.8 - 148.)			
*Decachlorobiphenyl			6.66			3.24	ug/kg		48.6	(40.0 - 160.)			
QC505502	9804582-01MSD	121618											
4,4'-DDT			8.33	2.22		6.85	ug/kg	24.9	55.7	(0.00 - 35.0)	SJ	05/05/98	2219
Aldrin			3.33	0.00		2.05	ug/kg	0.170	61.4	(0.00 - 35.0)			
Dieldrin			3.33	0.00		5.43	ug/kg	0.895	65.2	(0.00 - 35.0)			
Endrin			3.33	0.00		5.89	ug/kg	1.94	70.8	(0.00 - 35.0)			
Heptachlor			3.33	0.00		2.68	ug/kg	2.42	80.5	(0.00 - 35.0)			
gamma-BHC			3.33	0.00		3.07	ug/kg	7.91	92.2	(0.00 - 35.0)			
*4CMX			6.66			3.68	ug/kg		55.2	(45.8 - 148.)			
*Decachlorobiphenyl			6.66			2.37	ug/kg		55.6**	(40.0 - 160.)			

* represent a surrogate.

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Metals Analysis													
QC502040	BLANK	120662					-0.00417	mg/kg				CRB	04/24/98 0129
Mercury													
QC502041	LCS	120662					5.97	mg/kg				CRB	04/24/98 0132
Mercury													
QC502042	9804584-15MS	120662			0.27	0.0174	0.306	mg/kg				CRB	04/24/98 0233
Mercury													
QC502044	9804431-01MS	120662			0.289	0.299	0.543	mg/kg				CRB	04/24/98 0238
Mercury													
QC502045	9804516-01MS	120662			299	37.9	266	ug/kg				CRB	04/24/98 0241
Mercury													
QC502043	9804584-15MSD	120662			0.327	0.0174	0.391	mg/kg	6.38	106	(0.00 - 32.0)	CRB	04/24/98 0235
Mercury													
QC502009	BLANK	120653										MBL	04/23/98 1233
Antimony							29.7	ug/kg					
Arsenic							-10.9	ug/kg					
Barium							0.350	ug/kg					
Beryllium							-11.3	ug/kg					
Cadmium							11.5	ug/kg					
Chromium							8.93	ug/kg					
Cobalt							-29.0	ug/kg					
Copper							-136	ug/kg					
Lead							52.5	ug/kg					
Nickel							-27.5	ug/kg					
Selenium							-91.6	ug/kg					
Silver							153	ug/kg					
Thallium							-214	ug/kg					
Tin							301	ug/kg					
Vanadium							-0.703	ug/kg					
Zinc							7.60	ug/kg					
QC502010	LCS	120653										MBL	04/23/98 1239
Antimony				14800			15800	ug/kg		107	(33.7 - 199.)		
Arsenic				24000			22200	ug/kg		92.5	(83.3 - 124.)		
Barium				10200			10800	ug/kg		106	(88.7 - 159.)		
Beryllium				7030			6260	ug/kg		89.1	(83.5 - 121.)		
Cadmium				110000			94700	ug/kg		86.1	(76.6 - 119.)		
Chromium				48200			46300	ug/kg		96.1	(70.7 - 159.)		
Cobalt				11800			11400	ug/kg		96.7	(85.0 - 140.)		
Copper				55400			55500	ug/kg		100	(80.3 - 154.)		
Lead				134000			114000	ug/kg		84.7	(77.1 - 116.)		

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Nickel			42000			40600	ug/kg		96.7	(78.1 - 149.)	MBL	04/23/98	1239
Selenium			50800			44900	ug/kg		88.5	(79.7 - 121.)			
Silver			24500			24800	ug/kg		101	(89.4 - 135.)			
Thallium			56500			47100	ug/kg		83.3	(73.7 - 108.)			
Tin			(nom_conc = 0)			49900	ug/kg						
Vanadium			61400			55200	ug/kg		89.9	(78.5 - 129.)			
Zinc			622000			536000	ug/kg		86.2	(75.1 - 119.)			
QC502012	9804584-11MS	120653											
Antimony			48100	191		14300	ug/kg		25.5	(4.10 - 66.2)	MBL	04/23/98	1459
Arsenic			48100	2950		49300	ug/kg		83.7	(62.4 - 125.)			
Barium			48100	33700		84600	ug/kg		92.0	(67.0 - 131.)			
Beryllium			48100	320		53300	ug/kg		95.8	(72.1 - 124.)			
Cadmium			48100	31.0		52200	ug/kg		94.3	(68.6 - 125.)			
Chromium			48100	18200		67900	ug/kg		89.9	(61.4 - 136.)			
Cobalt			48100	837		52900	ug/kg		94.1	(69.0 - 127.)			
Copper			48100	4640		57800	ug/kg		96.1	(73.1 - 128.)			
Lead			48100	5990		57300	ug/kg		92.7	(56.3 - 135.)			
Nickel			48100	3280		55500	ug/kg		94.5	(77.2 - 123.)			
Selenium			48100	-364		43200	ug/kg		78.2	(63.9 - 120.)			
Thallium			48100	-81.1		52000	ug/kg		94.0	(70.1 - 120.)			
Vanadium			48100	30200		84400	ug/kg		98.0	(68.4 - 136.)			
Zinc			48100	5500		56300	ug/kg		91.9	(58.6 - 146.)			
QC502013	9804584-11MSD	120653											
Antimony			48500	191		11700	ug/kg	20.8	20.7	(0.00 - 40.6)	MBL	04/23/98	1505
Arsenic			48500	2950		48000	ug/kg	3.52	80.8	(0.00 - 28.1)			
Barium			48500	33700		84200	ug/kg	1.52	90.6	(0.00 - 43.2)			
Beryllium			48500	320		53100	ug/kg	1.13	94.7	(0.00 - 25.4)			
Cadmium			48500	31.0		52900	ug/kg	0.456	94.7	(0.00 - 24.3)			
Chromium			48500	18200		64000	ug/kg	9.03	82.2	(0.00 - 26.8)			
Cobalt			48500	837		52500	ug/kg	1.50	92.7	(0.00 - 24.9)			
Copper			48500	4640		57100	ug/kg	2.07	94.1	(0.00 - 21.7)			
Lead			48500	5990		56800	ug/kg	1.81	91.1	(0.00 - 34.0)			
Nickel			48500	3280		56200	ug/kg	0.416	94.9	(0.00 - 23.2)			
Selenium			48500	-364		42000	ug/kg	3.69	75.4	(0.00 - 21.7)			
Thallium			48500	-81.1		52400	ug/kg	0.00780	94.0	(0.00 - 18.7)			
Vanadium			48500	30200		81800	ug/kg	5.59	92.6	(0.00 - 22.6)			
Zinc			48500	5500		56900	ug/kg	0.410	92.2	(0.00 - 35.4)			
QC502011	9804584-11SERIAL	120653											
Antimony				191		794	ug/kg	200					
Arsenic				2950		4120	ug/kg	33.2					
											MBL	04/23/98	1454

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Lab. Sample ID: 9804582%

Report Date: May 06, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Barium				33700		34000	ug/kg	0.826			MBL	04/23/98	1454
Beryllium				320		256	ug/kg	22.2					
Cadmium				31.0		-151	ug/kg	200					
Chromium				18200		18400	ug/kg	0.955					
Cobalt				837		897	ug/kg	6.91					
Copper				4640		3690	ug/kg	22.6					
Lead				5990		6080	ug/kg	1.49					
Nickel				3280		2930	ug/kg	11.3					
Selenium				-364		23.0	ug/kg	0.00					
Thallium				-81.1		-193	ug/kg	0.00					
Vanadium				30200		30400	ug/kg	0.780					
Zinc				5500		5810	ug/kg	5.51					

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when
sample concentration exceeds spike conc by a factor of 4 or more



NPI/C00197

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CHAIN OF CUSTODY RECORD

9804582%

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Charleston, South Carolina 29407
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Charleston, South Carolina 29417
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White = sample collector

Yellow = file

Pink = with report



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874/
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

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Sample ID	: SPORTO682-1
Lab ID	: 9805296-01
Matrix	: Soil
Date Collected	: 05/11/98
Date Received	: 05/11/98
Priority	: Routine
Collector	: Client

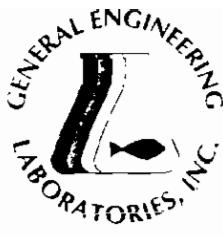
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1423	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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#9805296-01*



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1556	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		6.80	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	90.4	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	91.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	90.8	(72.1 - 137.)

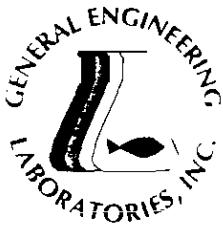
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID : SPORTO682-2

Surrogate Recovery	Test	Percent %	Acceptable Limits
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M = Method	Method-Description
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M 1	EPA 8260
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Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakney at (803) 769-7386.

Karen Blakney
Reviewed By





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FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-2
Lab ID : 9805296-02
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1556	122222	
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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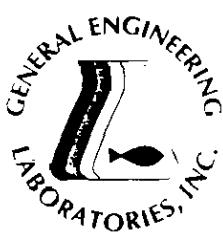
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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

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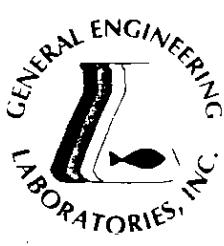
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1423	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		5.90	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	109.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	96.4	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	100.	(72.1 - 137.)

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-1		
Surrogate Recovery	Test	Percent%	Acceptable Limits
M = Method			Method-Description
M 1	EPA 8260		

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

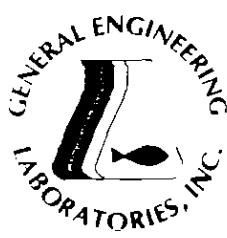
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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STATE	GEL	EPI
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-3
Lab ID : 9805296-03
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1626	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

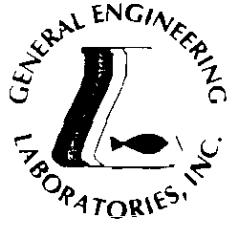
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FL	E87156/87294	E87472/874.
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1626	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		6.00	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromoform	APP 9 VOA-8260	90.6	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	90.0	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	87.6	(72.1 - 137.)

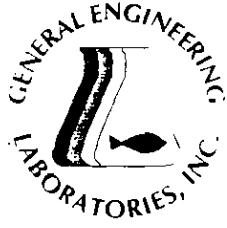
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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-3	
Surrogate Recovery	Test	Percent %
		Acceptable Limits

M = Method

Method-Description

M 1 EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

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9805296-03

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID	: SPORTO682-4
Lab ID	: 9805296-04
Matrix	: Soil
Date Collected	: 05/11/98
Date Received	: 05/11/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1657	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.310	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

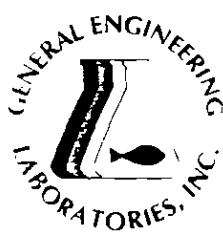
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

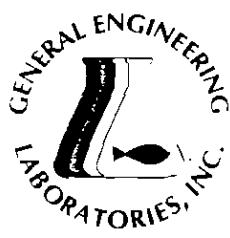
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1657	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride	U	0.00	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	95.2	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	86.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	89.4	(72.1 - 137.)

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STATE	GEL	EPI
FL	E8715&87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID : SPORTO682-4			
Surrogate Recovery	Test	Percent %	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By



GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID	:	SPORTO682-5
Lab ID	:	9805296-05
Matrix	:	Soil
Date Collected	:	05/11/98
Date Received	:	05/11/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1728	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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STATE	GEL	EPI
FL	E8715687294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

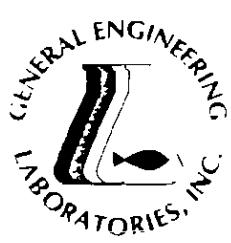
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1728	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methactylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chlonde	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		7.40	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	92.6	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	90.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	90.2	(72.1 - 137.)

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Laboratory Certifications		
STATE	GEL	EPI
FL	E8715687294	E87472874.
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers
Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-5		
Surrogate Recovery	Test	Percent%	Acceptable Limits

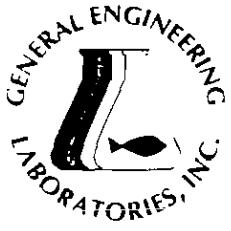
M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit.
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakney
Reviewed By



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/E87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID	:	SPORTO682-6
Lab ID	:	9805296-06
Matrix	:	Soil
Date Collected	:	05/11/98
Date Received	:	05/11/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1758	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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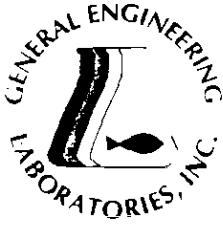
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Sample ID : SPORTO682-6

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1758	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		6.60	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	88.8	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	89.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	87.8	(72.1 - 137.)

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FL	E87156/87294	E87472/874:
NC	233.	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	SPORT0682-6		
Surrogate Recovery	Test	Percent %	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

Method-Description

M 1

EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

^U indicates that the analyte was not detected at a concentration greater than the detection limit.

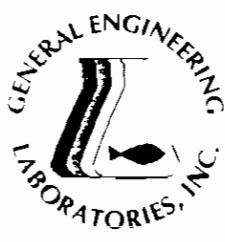
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

indicates that a quality control sample recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakemore
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Laboratory Certifications

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FL	E87156/87294	E87472/8741
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-7
Lab ID : 9805296-07
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetraehloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1304	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetraehloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

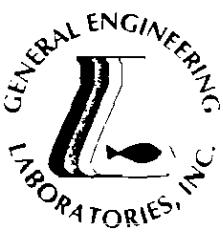
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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1304	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		7.10	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

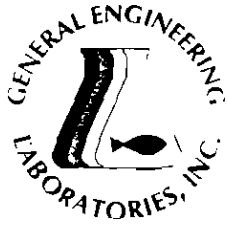
Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	90.4	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	92.4	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	90.6	(72.1 - 137.)

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
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North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID : SPORTO682-7

Surrogate Recovery	Test	Percent%	Acceptable Limits
--------------------	------	----------	-------------------

M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

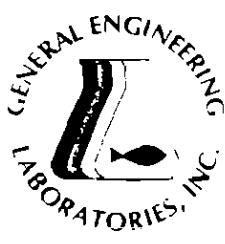
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By





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STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-8
Lab ID : 9805296-08
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1900	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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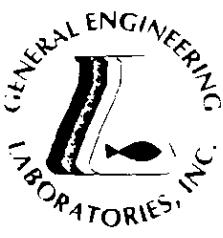
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1900	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		7.60	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

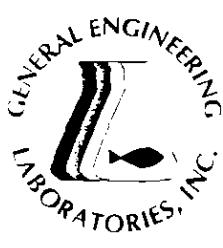
Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	91.8	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	92.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	90.0	(72.1 - 137.)

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-8	
Surrogate Recovery	Test	Percent%
		Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

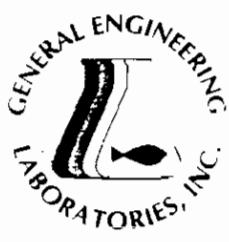
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By



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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-9
Lab ID : 9805296-09
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

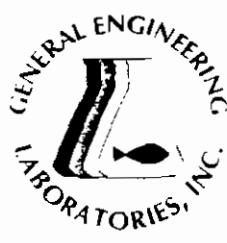
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1931	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachmen-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	1931	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		6.20	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

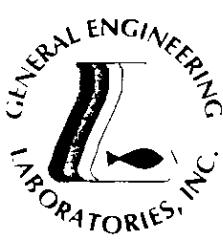
Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	90.0	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	90.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	88.2	(72.1 - 137.)

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STATE	GEL	EPI
FL	E87156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-9		
Surrogate Recovery	Test	Percent %	Acceptable Limits
M 1	EPA 8260		

M = Method

Method-Description

M 1 EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

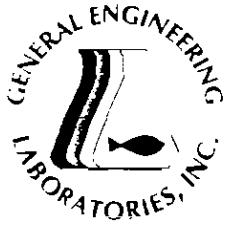
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By





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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-10
Lab ID : 9805296-10
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2002	122222	A
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Sample ID : SPORTO682-10

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2002	122222	1
Chlorotorm	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		6.90	1.00	5.00	ug/kg	1.0					
Propiononitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

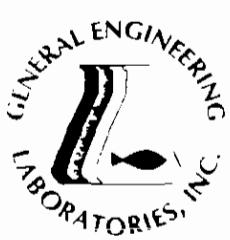
Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	91.4	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	91.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	89.6	(72.1 - 137.)

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STATE	GEL	EPI
FL	E87156/87294	E87472/8743
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers
Supervisor: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	SPORT0682-10		
Surrogate Recovery	Test	Percent %	Acceptable Limits

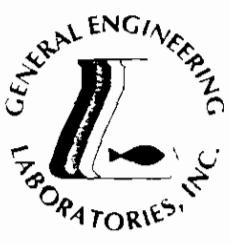
M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit.
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakney
Reviewed By



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-11
Lab ID : 9805296-11
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2032	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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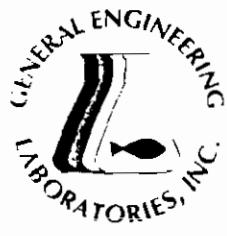
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STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Sample ID : SPORTO682-11

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2032	122222	I
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		7.00	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

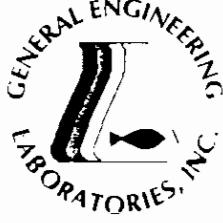
Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	103.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	92.6	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	91.8	(72.1 - 137.)

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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-11		
Surrogate Recovery	Test	Percent %	Acceptable Limits
M = Method			Method-Description
M 1	EPA 8260		

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

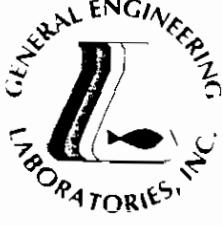
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakney at (803) 769-7386.

Karen Blakney
Reviewed By



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/E87294	E87472/E874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106
 Contact: Mr. Bill Hiers
 Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID	: SPORTO682-12
Lab ID	: 9805296-12
Matrix	: Soil
Date Collected	: 05/11/98
Date Received	: 05/11/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2103	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

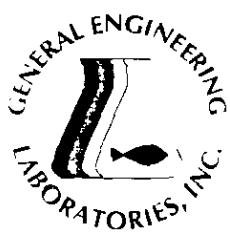
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Laboratory Certifications

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FL	E87156/E87294	E87472/E874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Sample ID		: SPORTO682-12									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2103	122222	1
Chlorotorm	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		8.70	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	91.6	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	90.4	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	89.0	(72.1 - 137.)

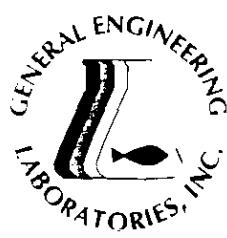
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-12		
Surrogate Recovery	Test	Percent %	Acceptable Limits
M = Method			Method-Description
M 1	EPA 8260		

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

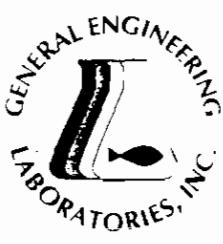
U indicates that the analyte was not detected at a concentration greater than the detection limit.

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standard operating procedures. Please direct
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Karen Blakeney
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SC	10120	10582
TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID	:	SPORTO682-13
Lab ID	:	9805296-13
Matrix	:	Soil
Date Collected	:	05/11/98
Date Received	:	05/11/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2134	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

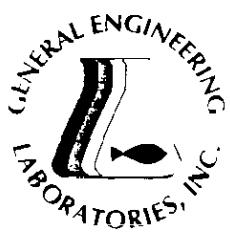
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Sample ID . SPORTO682-13

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2134	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		5.60	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	101.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	93.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	92.2	(72.1 - 137.)

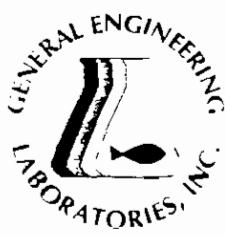
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-13		
Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

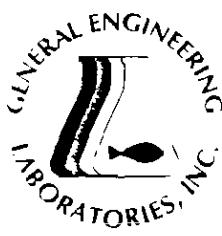
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Karen Blakeney
Reviewed By





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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-14
Lab ID : 9805296-14
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2206	122222	I
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

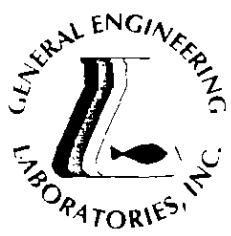
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E874728
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2206	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		8.50	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	87.0	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	89.4	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	87.0	(72.1 - 137.)

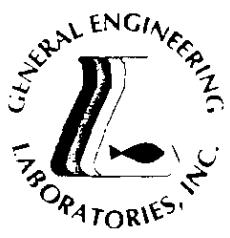
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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-14		
Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method

Method-Description

M 1 EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-15
Lab ID : 9805296-15
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2223	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

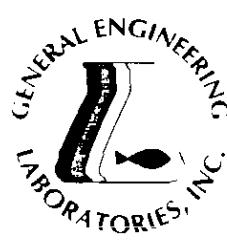
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/14/98	2223	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		6.00	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

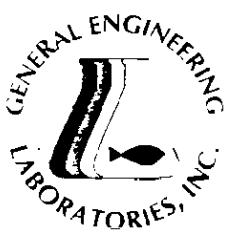
Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	98.8	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	91.6	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	91.0	(72.1 - 137.)

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FL	E87156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-15		
Surrogate Recovery	Test	Percent %	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

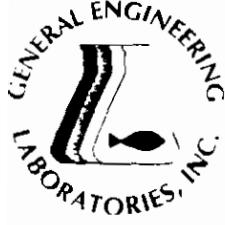
Note

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit.
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakney
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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/6
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID	:	SPORTO682-16
Lab ID	:	9805296-16
Matrix	:	Soil
Date Collected	:	05/11/98
Date Received	:	05/11/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1851	122222	,
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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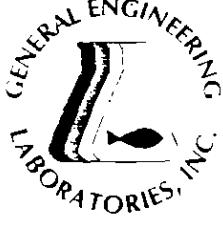
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1851	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride	J	4.40	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	90.6	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	92.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	89.0	(72.1 - 137.)

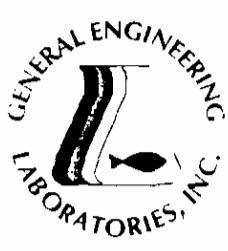
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FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-16	
Surrogate Recovery	Test	Percent%
		Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID	:	SPORTO682-17
Lab ID	:	9805296-17
Matrix	:	Soil
Date Collected	:	05/11/98
Date Received	:	05/11/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JER	05/15/98	1923	122222	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

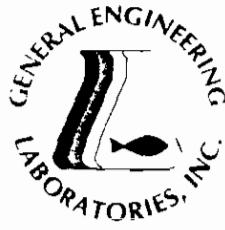
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1923	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		7.00	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	97.4	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	93.4	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	96.2	(72.1 - 137.)

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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers
Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-17		
Surrogate Recovery	Test	Percent%	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

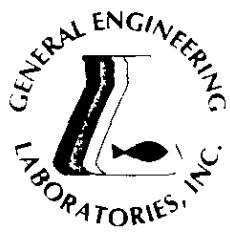
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID	: SPORTO682-18
Lab ID	: 9805296-18
Matrix	: Soil
Date Collected	: 05/11/98
Date Received	: 05/11/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1954	122222	A
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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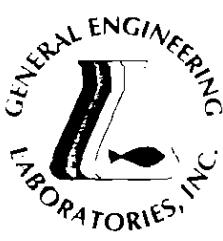
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FL	E87156/87294	E874728
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1954	122222	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		6.30	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	100.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	91.4	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	91.0	(72.1 - 137.)

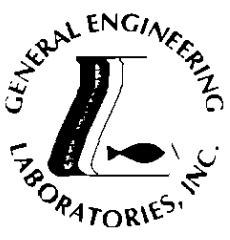
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STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-18		
Surrogate Recovery	Test	Percent %	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

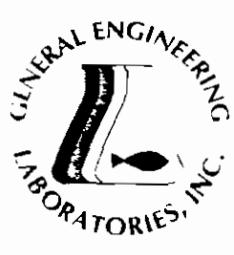
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By





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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-19
Lab ID : 9805296-19
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	2025	122280	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.640	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	J	5.80	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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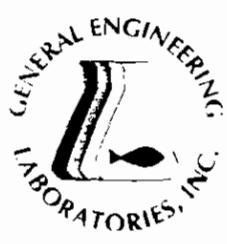
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	2025	122280	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		9.10	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	94.8	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	94.4	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	92.4	(72.1 - 137.)

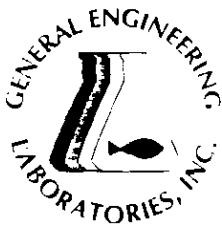
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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-19		
Surrogate Recovery	Test	Percent %	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analytic recovery is outside of specified acceptance criteria.

indicates that a quality committee may be responsible for specific responsibilities.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 1 of 3

Sample ID : SPORTO682-20
Lab ID : 9805296-20
Matrix : Soil
Date Collected : 05/11/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1408	122280	1
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

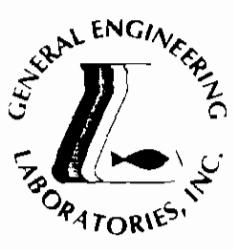
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1408	122280	1
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromonethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		8.00	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	98.6	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260	93.4	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	91.0	(72.1 - 137.)

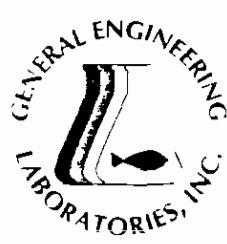
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TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-20		
Surrogate Recovery	Test	Percent %	Acceptable Limits

M = Method	Method-Description
M 1	EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

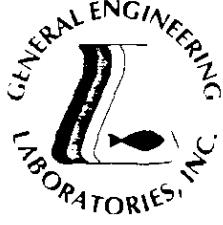
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
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Karen Blakney
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TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: May 19, 1998

Page 1 of 3

Sample ID	:	SPORTO682-21
Lab ID	:	9805296-21
Matrix	:	Soil
Date Collected	:	05/11/98
Date Received	:	05/11/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1440	122280	.
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
2-Butanone	U	0.00	2.00	10.0	ug/kg	1.0					
2-Hexanone	U	0.00	5.00	10.0	ug/kg	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetone	U	0.00	5.00	10.0	ug/kg	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/kg	1.0					
Acrolein	U	0.00	10.0	20.0	ug/kg	1.0					
Acrylonitrile	U	0.00	5.00	50.0	ug/kg	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/kg	1.0					
Benzene	U	0.00	1.00	2.00	ug/kg	1.0					
Bromoform	U	0.00	1.00	2.00	ug/kg	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/kg	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/kg	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/kg	1.0					

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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/kg	1.0	JEB	05/15/98	1440	122280	I
Chloroform	U	0.00	1.00	2.00	ug/kg	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/kg	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/kg	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/kg	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/kg	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Methyl Iodide	U	0.00	2.00	5.00	ug/kg	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/kg	1.0					
Methylene Chloride		7.10	1.00	5.00	ug/kg	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/kg	1.0					
Styrene	U	0.00	1.00	2.00	ug/kg	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/kg	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/kg	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/kg	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
BromoFluorobenzene	APP 9 VOA-8260	95.8	(53.5 - 154.)
DibromoFluoromethane	APP 9 VOA-8260	91.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260	90.0	(72.1 - 137.)

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

Page 3 of 3

Sample ID	: SPORTO682-21		
Surrogate Recovery	Test	Percent %	Acceptable Limits

M = Method

Method-Description

M I EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

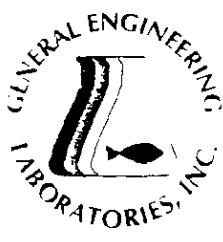
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID	:	SPORTO682-22
Lab ID	:	9805296-22
Matrix	:	GroundH2O
Date Collected	:	05/11/98
Date Received	:	05/11/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/l	1.0	JEB	05/13/98	1128	122074	.
1,1,1-Trichloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,1,2,2-Tetrachloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,1,2-Trichloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,1-Dichloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,1-Dichloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
1,2,3-Trichloropropane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dibromo-3-chloropropane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dibromoethane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dichlorobenzene	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dichloroethane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-Dichloropropane	U	0.00	1.00	2.00	ug/l	1.0					
1,2-cis-Dichloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
1,2-trans-Dichloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
2-Butanone	J	5.73	2.00	10.0	ug/l	1.0					
2-Hexanone	U	1.06	5.00	10.0	ug/l	1.0					
4-Methyl-2-pentanone	U	0.00	5.00	10.0	ug/l	1.0					
Acetone	J	8.55	5.00	10.0	ug/l	1.0					
Acetonitrile	U	0.00	2.00	10.0	ug/l	1.0					
Acrolein	U	0.00	10.0	20.0	ug/l	1.0					
Acrylonitrile	U	0.00	10.0	20.0	ug/l	1.0					
Allyl Chloride	U	0.00	5.00	10.0	ug/l	1.0					
Benzene	U	0.00	1.00	2.00	ug/l	1.0					
Bromoform	U	0.00	1.00	2.00	ug/l	1.0					
Carbon Disulfide	U	0.00	2.00	10.0	ug/l	1.0					
Carbon Tetrachloride	U	0.00	1.00	2.00	ug/l	1.0					
Chlorobenzene	U	0.00	1.00	2.00	ug/l	1.0					

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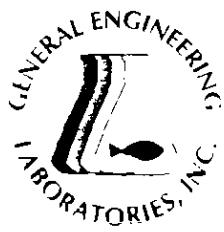
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: May 19, 1998

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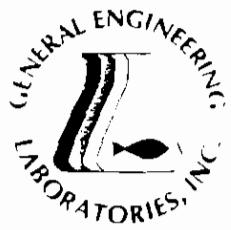
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	0.00	1.00	2.00	ug/l	1.0					
Chloroethane	U	0.00	1.00	2.00	ug/l	1.0	JEB	05/13/98	1128	122074	I
Chloroform	U	0.00	1.00	2.00	ug/l	1.0					
Chloroprene	U	0.00	2.00	10.0	ug/l	1.0					
Dibromomethane	U	0.00	1.00	2.00	ug/l	1.0					
Dichlorobromomethane	U	0.00	1.00	2.00	ug/l	1.0					
Dichlorodifluoromethane	U	0.00	1.00	2.00	ug/l	1.0					
Ethylbenzene	U	0.00	1.00	2.00	ug/l	1.0					
Isobutyl Alcohol	U	0.00	10.0	20.0	ug/l	1.0					
Methacrylonitrile	U	0.00	5.00	10.0	ug/l	1.0					
Methyl Bromide	U	0.00	1.00	2.00	ug/l	1.0					
Methyl Chloride	U	0.00	1.00	2.00	ug/l	1.0					
Methyl Iodide	U	1.07	2.00	5.00	ug/l	1.0					
Methyl Methacrylate	U	0.00	2.00	10.0	ug/l	1.0					
Methylene Chloride		9.26	1.00	5.00	ug/l	1.0					
Propionitrile	U	0.00	10.0	20.0	ug/l	1.0					
Styrene	U	0.00	1.00	2.00	ug/l	1.0					
Tetrachloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
Toluene	U	0.00	1.00	2.00	ug/l	1.0					
Trichloroethylene	U	0.00	1.00	2.00	ug/l	1.0					
Trichlorofluoromethane	U	0.00	1.00	2.00	ug/l	1.0					
Vinyl Acetate	U	0.00	5.00	10.0	ug/l	1.0					
Vinyl chloride	U	0.00	1.00	2.00	ug/l	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/l	1.0					
bis(2-Chloromethyl)ether	U	0.00	10.0	20.0	ug/l	1.0					
cis-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/l	1.0					
trans-1,3-Dichloropropylene	U	0.00	1.00	2.00	ug/l	1.0					
trans-1,4-Dichloro-2-butene	U	0.00	1.00	2.00	ug/l	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260	93.0	(60.2 - 139.)
Dibromo Fluoromethane	APP 9 VOA-8260	90.6	(70.6 - 152.)
Toluene-d8	APP 9 VOA-8260	93.8	(68.4 - 135.)

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9805296-22



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472A
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

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Sample ID : SPORTO682-22

Surrogate Recovery	Test	Percent%	Acceptable Limits
--------------------	------	----------	-------------------

M = Method

M 1 EPA 8260

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney

Reviewed By



QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9805296%

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD %	REC %	Range	Analyst	Date	Time
Volatile Organics													
QC507190		BLANK	122074								JEB	05/13/98	0919
1,1-Dichloroethylene						0.00	ug/l						
Benzene						0.00	ug/l						
Chlorobenzene						0.00	ug/l						
Toluene						0.00	ug/l						
Trichloroethylene						0.00	ug/l						
*Bromofluorobenzene							ug/l		92.3	(60.2 - 139.)			
*Dibromofluoromethane							ug/l		92.1	(70.6 - 152.)			
*Toluene-d8							ug/l		94.3	(68.4 - 135.)			
1,1,1,2-Tetrachloroethane						0.00	ug/l						
1,1,1-Trichloroethane						0.00	ug/l						
1,1,2,2-Tetrachloroethane						0.00	ug/l						
1,1,2-Trichloroethane						0.00	ug/l						
1,1-Dichloroethane						0.00	ug/l						
1,2,3-Trichloropropane						0.00	ug/l						
1,2-Dibromo-3-chloropropane						0.00	ug/l						
1,2-Dibromoethane						0.00	ug/l						
1,2-Dichlorobenzene						0.00	ug/l						
1,2-Dichloroethane						0.00	ug/l						
1,2-Dichloropropane						0.00	ug/l						
1,2-cis-Dichloroethylene						0.00	ug/l						
1,2-trans-Dichloroethylene						0.00	ug/l						
2-Butanone						3.34	ug/l						
2-Hexanone						1.00	ug/l						
4-Methyl-2-pentanone						0.00	ug/l						
Acetone						2.74	ug/l						
Acetonitrile						0.00	ug/l						
Acrolein						1.31	ug/l						
Acrylonitrile						0.970	ug/l						
Allyl Chloride						0.00	ug/l						
Bromoform						0.00	ug/l						
Carbon Disulfide						0.00	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chlorodibromomethane						0.00	ug/l						
Chloroethane						0.00	ug/l						
Chloroform						0.00	ug/l						
Chloroprene						0.00	ug/l						
Dibromomethane						0.00	ug/l						
Dichlorobromomethane						0.00	ug/l						

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Dichloro(fluoromethane						0.00	ug/l				JEB	05/13/98	0919
Ethylbenzene						0.00	ug/l						
Isobutyl Alcohol						0.00	ug/l						
Methacrylonitrile						0.00	ug/l						
Methyl Bromide						0.00	ug/l						
Methyl Chloride						0.00	ug/l						
Methyl Iodide						0.820	ug/l						
Methyl Methacrylate						0.00	ug/l						
Methylene Chloride						4.72	ug/l						
Propionitrile						0.00	ug/l						
Styrene						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Trichlorofluoromethane						0.00	ug/l						
Vinyl Acetate						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
Xylenes (TOTAL)						0.00	ug/l						
bis(2-Chloromethyl)ether						0.00	ug/l						
cis-1,3-Dichloropropylene						0.00	ug/l						
trans-1,3-Dichloropropylene						0.00	ug/l						
trans-1,4-Dichloro-2-butene						0.00	ug/l						
QC507720	BLANK	122222											
1,1-Dichloroethylene						0.00	ug/kg				JEB	05/14/98	1352
Benzene						0.00	ug/kg						
Chlorobenzene						0.00	ug/kg						
Toluene						0.00	ug/kg						
Trichloroethylene						0.00	ug/kg						
*Bromofluorobenzene							ug/kg		93.6	(53.5 - 154.)			
*Dibromo(fluoromethane							ug/kg		87.8	(63.4 - 136.)			
*Toluene-d8							ug/kg		89.4	(72.1 - 137.)			
1,1,1,2-Tetrachloroethane						0.00	ug/kg						
1,1,1-Trichloroethane						0.00	ug/kg						
1,1,2,2-Tetrachloroethane						0.300	ug/kg						
1,1,2-Trichloroethane						0.00	ug/kg						
1,1-Dichloroethane						0.00	ug/kg						
1,2,3-Trichloropropane						0.00	ug/kg						
1,2-Dibromo-3-chloropropane						0.00	ug/kg						
1,2-Dibromoethane						0.00	ug/kg						
1,2-Dichlorobenzene						0.00	ug/kg						
1,2-Dichloroethane						0.00	ug/kg						
1,2-Dichloropropane						0.00	ug/kg						

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QC Summary Report

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Report Date: May 19, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
1,2-cis-Dichloroethylene						0.00	ug/kg				JEB	05/14/98	1352
1,2-trans-Dichloroethylene						0.00	ug/kg						
2-Butanone						0.00	ug/kg						
2-Hexanone						0.00	ug/kg						
4-Methyl-2-pentanone						0.00	ug/kg						
Acetone						0.00	ug/kg						
Acetonitrile						0.00	ug/kg						
Acrolein						0.00	ug/kg						
Acrylonitrile						0.00	ug/kg						
Allyl Chloride						0.00	ug/kg						
Bromoform						0.00	ug/kg						
Carbon Disulfide						0.00	ug/kg						
Carbon Tetrachloride						0.00	ug/kg						
Chlorodibromomethane						0.00	ug/kg						
Chloroethane						0.00	ug/kg						
Chloroform						0.00	ug/kg						
Chloroprene						0.00	ug/kg						
Dibromomethane						0.00	ug/kg						
Dichlorobromomethane						0.00	ug/kg						
Dichlorodifluoromethane						0.00	ug/kg						
Ethylbenzene						0.00	ug/kg						
Isobutyl Alcohol						0.00	ug/kg						
Methacrylonitrile						0.00	ug/kg						
Methyl Bromide						0.00	ug/kg						
Methyl Chloride						0.00	ug/kg						
Methyl Iodide						0.00	ug/kg						
Methyl Methacrylate						0.00	ug/kg						
Methylene Chloride						4.30	ug/kg						
Propionitrile						0.00	ug/kg						
Styrene						0.00	ug/kg						
Tetrachloroethylene						0.00	ug/kg						
Trichlorofluoromethane						0.00	ug/kg						
Vinyl Acetate						0.00	ug/kg						
Vinyl chloride						0.00	ug/kg						
Xylenes (TOTAL)						0.00	ug/kg						
bis(2-Chloromethyl)ether						0.00	ug/kg						
cis-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,4-Dichloro-2-butene						0.00	ug/kg						

QC507935 BLANK 122280

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Lab. Sample ID: 9805296%

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
1,1-Dichloroethylene						0.00	ug/kg				JEB	05/15/98	1023
Benzene						0.00	ug/kg				JEB	05/15/98	1023
Chlorobenzene						0.00	ug/kg						
Toluene						0.00	ug/kg						
Trichloroethylene						0.00	ug/kg						
*Bromofluorobenzene							ug/kg	88.2	(53.5 - 154.)				
*Dibromofluoromethane							ug/kg	87.0	(63.4 - 136.)				
*Toluene-d8							ug/kg	86.8	(72.1 - 137.)				
1,1,1,2-Tetrachloroethane						0.00	ug/kg						
1,1,1-Trichloroethane						0.00	ug/kg						
1,1,2,2-Tetrachloroethane						0.00	ug/kg						
1,1,2-Trichloroethane						0.00	ug/kg						
1,1-Dichloroethane						0.00	ug/kg						
1,2,3-Trichloropropane						0.00	ug/kg						
1,2-Dibromo-3-chloropropane						0.00	ug/kg						
1,2-Dibromoethane						0.00	ug/kg						
1,2-Dichlorobenzene						0.00	ug/kg						
1,2-Dichloroethane						0.00	ug/kg						
1,2-Dichloropropane						0.00	ug/kg						
1,2-cis-Dichloroethylene						0.00	ug/kg						
1,2-trans-Dichloroethylene						0.00	ug/kg						
2-Butanone						0.00	ug/kg						
2-Hexanone						0.00	ug/kg						
4-Methyl-2-pentanone						0.00	ug/kg						
Acetone						0.00	ug/kg						
Acetonitrile						0.00	ug/kg						
Acrolein						0.00	ug/kg						
Acrylonitrile						0.00	ug/kg						
Allyl Chloride						0.00	ug/kg						
Bromoform						0.00	ug/kg						
Carbon Disulfide						0.00	ug/kg						
Carbon Tetrachloride						0.00	ug/kg						
Chlorodibromomethane						0.00	ug/kg						
Chloroethane						0.00	ug/kg						
Chloroform						0.00	ug/kg						
Chloroprene						0.00	ug/kg						
Dibromomethane						0.00	ug/kg						
Dichlorobromomethane						0.00	ug/kg						
Dichlorodifluoromethane						0.00	ug/kg						
Ethylbenzene						0.00	ug/kg						

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: May 19, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst
Isobutyl Alcohol						0.00	ug/kg				JEB C
Methacrylonitrile						0.00	ug/kg				
Methyl Bromide						0.00	ug/kg				
Methyl Chloride						0.00	ug/kg				
Methyl Iodide						0.00	ug/kg				
Methyl Methacrylate						0.00	ug/kg				
Methylene Chloride						4.00	ug/kg				
Propionitrile						0.00	ug/kg				
Styrene						0.00	ug/kg				
Tetrachloroethylene						0.00	ug/kg				
Trichlorofluoromethane						0.00	ug/kg				
Vinyl Acetate						0.00	ug/kg				
Vinyl chloride						0.00	ug/kg				
Xylenes (TOTAL)						0.00	ug/kg				
bis(2-Chloromethyl)ether						0.00	ug/kg				
cis-1,3-Dichloropropylene						0.00	ug/kg				
trans-1,3-Dichloropropylene						0.00	ug/kg				
trans-1,4-Dichloro-2-butene						0.00	ug/kg				
QC507191 9805214-01PS 122074											
1,1-Dichloroethylene				50	0.00	44.2	ug/l	88.4	(59.2 - 141.)	JEB 05	
Benzene				50	0.00	40.6	ug/l	81.1	(63.3 - 134.)		
Chlorobenzene				50	0.00	42.5	ug/l	85.0	(77.8 - 125.)		
Toluene				50	0.00	40.5	ug/l	81.0	(71.6 - 125.)		
Trichloroethylene				50	0.00	41.2	ug/l	82.3	(65.5 - 130.)		
*Bromofluorobenzene				50		47.5	ug/l	95.0	(60.2 - 139.)		
*Dibromofluoromethane				50		45.6	ug/l	91.3	(70.6 - 152.)		
*Toluene-d8				50		46.8	ug/l	93.6	(68.4 - 135.)		
QC507721 9805296-01PS 122222											
1,1-Dichloroethylene				50	0.00	48.5	ug/kg	97.0	(67.9 - 136.)	JEB 05	
Benzene				50	0.00	38.0	ug/kg	76.0	(62.2 - 131.)		
Chlorobenzene				50	0.00	43.2	ug/kg	86.4	(74.4 - 127.)		
Toluene				50	0.00	44.2	ug/kg	88.4	(67.0 - 143.)		
Trichloroethylene				50	0.00	44.3	ug/kg	88.6	(63.2 - 129.)		
*Bromofluorobenzene				50		44.8	ug/kg	89.6	(53.5 - 154.)		
*Dibromofluoromethane				50		44.2	ug/kg	88.4	(63.4 - 136.)		
*Toluene-d8				50		45.5	ug/kg	91.0	(72.1 - 137.)		
QC507936 9805296-19PS 122280											
1,1-Dichloroethylene				50	0.640	46.3	ug/kg	92.6	(67.9 - 136.)	JEB 05	
Benzene				50	0.00	41.1	ug/kg	82.2	(62.2 - 131.)		
Chlorobenzene				50	0.00	49.9	ug/kg	99.8	(74.4 - 127.)		

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date
Toluene			50	0.00		37.4	ug/kg		74.8	(67.0 - 143.)	JEB	05
Trichloroethylene			50	0.00		37.8	ug/kg		75.6	(63.2 - 129.)		
*Bromofluorobenzene			50			42.3	ug/kg		84.6	(53.5 - 154.)		
*Dibromofluoromethane			50			43.4	ug/kg		86.8	(63.4 - 136.)		
*Toluene-d8			50			43.4	ug/kg		86.8	(72.1 - 137.)		
QC507192	9805214-01PSD	122074										
1,1-Dichloroethylene			50	0.00		47.6	ug/l	7.36	95.2	(0.00 - 25.1)	JEB	05.
Benzene			50	0.00		43.9	ug/l	7.96	87.8	(0.00 - 31.1)		
Chlorobenzene			50	0.00		41.5	ug/l	2.24	83.1	(0.00 - 22.7)		
Toluene			50	0.00		43.9	ug/l	7.96	87.8	(0.00 - 22.8)		
Trichloroethylene			50	0.00		44.5	ug/l	7.84	89.0	(0.00 - 36.9)		
*Bromofluorobenzene			50			47.5	ug/l		95.0	(60.2 - 139.)		
*Dibromofluoromethane			50			45.4	ug/l		90.8	(70.6 - 152.)		
*Toluene-d8			50			46.7	ug/l		93.3	(68.4 - 135.)		
QC507722	9805296-01PSD	122222										
1,1-Dichloroethylene			50	0.00		43.3	ug/kg	11.3	86.6	(0.00 - 36.6)	JEB	05.
Benzene			50	0.00		38.0	ug/kg	0.00	76.0	(0.00 - 30.4)		
Chlorobenzene			50	0.00		46.1	ug/kg	6.49	92.2	(0.00 - 17.6)		
Toluene			50	0.00		34.3	ug/kg	25.2**	68.6	(0.00 - 20.1)		
Trichloroethylene			50	0.00		34.0	ug/kg	26.3	68.0	(0.00 - 34.1)		
*Bromofluorobenzene			50			43.5	ug/kg		87.0	(53.5 - 154.)		
*Dibromofluoromethane			50			44.1	ug/kg		88.2	(63.4 - 136.)		
*Toluene-d8			50			43.7	ug/kg		87.4	(72.1 - 137.)		
QC507937	9805296-19PSD	122280										
1,1-Dichloroethylene			50	0.640		47.2	ug/kg	1.92	94.4	(0.00 - 36.6)	JEB	05/
Benzene			50	0.00		39.8	ug/kg	3.21	79.6	(0.00 - 30.4)		
Chlorobenzene			50	0.00		49.9	ug/kg	0.00	99.8	(0.00 - 17.6)		
Toluene			50	0.00		37.3	ug/kg	0.268	74.6	(0.00 - 20.1)		
Trichloroethylene			50	0.00		36.4	ug/kg	3.77	72.8	(0.00 - 34.1)		
*Bromofluorobenzene			50			44.2	ug/kg		88.4	(53.5 - 154.)		
*Dibromofluoromethane			50			45.4	ug/kg		90.8	(63.4 - 136.)		
*Toluene-d8			50			45.7	ug/kg		91.4	(72.1 - 137.)		

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Lab. Sample ID: 9805296%

Report Date: May 19, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	D:
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Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when
sample concentration exceeds spike conc by a factor of 4 or more

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CHAIN OF CUSTODY RECORD

Page 1 of 2

Client Name/Facility Name <i>SPORTENVDET CHASN</i>	Collected by/Company <i>SPORTENVDET CHASN</i>	# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods															← Use F or P in the boxes to indicate whether sample was filtered and/or preserved	Sampling For Appendix Nine Volatiles	Remarks
			pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfate	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Colliform - specify type			
SAMPLE ID	DATE	TIME	WELL SOIL COMIP GRAB																	
Sport #682-1	5/11/98	09:08	X	1					X										NBCK166S000101	
Sport #682-2	5/11/98	09:16	X	1					X										NBCK166S000102	
Sport #682-3	5/11/98	09:25	X	1					X										NBCK166S000201	
Sport #682-4	5/11/98	09:28	X	1					X										NBCK166S000202	
Sport #682-5	5/11/98	09:34	X	1					X										NBCK166S000301	
Sport #682-6	5/11/98	09:41	X	1					X										NBCK166S000302	
Sport #682-7	5/11/98	09:46	X	1					X										NBCK166S000401	
Sport #682-8	5/11/98	09:52	X	1					X										NBCK166S000402	
Sport #682-9	5/11/98	09:58	X	1					X										NBCK166S000501	
Sport #682-10	5/11/98	10:04	X	1					X										NBCK166S000502	
Sport #682-11	5/11/98	10:11	X	1					X										NBCK166S000601	
Sport #682-12	5/11/98	10:16	X	1					X										NBCK166S000602	
Sport #682-13	5/11/98	10:23	X	1					X										NBCK166S000701	
Relinquished by: <i>Matthew W. Jeffett</i>	Date: 5/11/98	Time: 1430	Received by: <i>U. Washington</i>		Relinquished by: <i>U. Washington</i>	Date: 5/11/98	Time: 1515	Received by: <i>Catherine H. H.</i>												
Reinquired by:	Date:	Time:	Received by lab by:		Date:	Time:	Remarks:													

White = sample collector

Yellow = file

Pink = with report

CHAIN OF CUSTODY RECORD

Charleston, South Carol.
P.O. Box 30712
Charleston, South Carol.
(803) 556-8171

Client Name/Facility Name <u>Sport Env Det Chasn</u> Collected by/Company <u>Sport Env Det Chasn</u>					# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods												Use F or P in the boxes to indicate whether sample was filtered and/or preserved Sampling For Appendix Nine Volatiles	Remarks		
SAMPLE ID	DATE	TIME	WELL SOIL COMP GRAB			pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method Required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables			PCB's	Cyanide
Sport 0682-14	5/11/98	10:27	X		1					X											NBCK166S000702
Sport 0682-15	5/11/98	10:35	X		1					X											NBCK166S000801
Sport 0682-16	5/11/98	10:41	X		1					X											NBCK166S000802
Sport 0682-17	5/11/98	10:46	X		1					X											NBCK166S000901
Sport 0682-18	5/11/98	10:51	X		1					X											NBCK166S000902
Sport 0682-19	5/11/98	10:56	X		1					X											NBCK166S001001
Sport 0682-20	5/11/98	11:02	X		1					X											NBCK166S001002
Sport 0682-21	5/11/98	11:08	X		1					X											NBCK166S001002
Sport 0682-22	5/11/98	08:30			1					X											Trip Blank
Relinquished by: <u>Mark W. Jeffs</u>	Date: 5/11/98	Time: 1430	Received by: <u>U. Washington</u>	Relinquished by: <u>U. Washington</u>	Date: 5/11/98	Time: 1515	Received by: <u>Catherine M. S.</u>														
Relinquished by:	Date:	Time:	Received by lab by:		Date:	Time:	Remarks:														

White = sample collector

Yellow = file

Pink = with report



GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472A
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 1 of 2

Sample ID	:	SPORT0692-1
Lab ID	:	9805645-01
Matrix	:	TCLP
Date Collected	:	05/20/98
Date Received	:	05/21/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>TCLP Volatile Compounds - 11 items</i>											
1,1-Dichloroethylene	U	0.00	2.50	70.0	ug/l	10.	JEB	05/30/98	1022	123044	
1,2-Dichloroethane	U	0.00	2.30	50.0	ug/l	10.					
1,4-Dichlorobenzene	U	0.00	2.70	750	ug/l	10.					
2-Butanone	J	43.7	21.2	2000	ug/l	10.					
Benzene	U	0.00	2.50	50.0	ug/l	10.					
Carbon Tetrachloride	U	0.00	2.20	20.0	ug/l	10.					
Chlorobenzene	U	0.00	2.50	1000	ug/l	10.					
Chloroform	J	7.10	2.40	600	ug/l	10.					
Tetrachloroethylene	U	0.00	2.30	70.0	ug/l	10.					
Trichloroethylene	J	9.00	2.70	50.0	ug/l	10.					
Vinyl chloride	U	0.00	4.00	20.0	ug/l	10.					

The following prep procedures were performed:

TCLP Extraction - Volatiles

JL 05/29/98 0020 123052 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	TCLP VOA-8260	89.3	(80.0 - 128.)
Dibromofluoromethane	TCLP VOA-8260	91.1	(67.7 - 135.)
Toluene-d8	TCLP VOA-8260	103.	(76.8 - 122.)

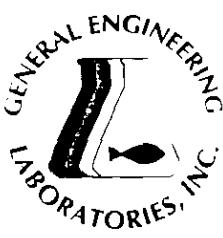
M = Method	Method-Description
M 1	EPA 8260

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9805645-01



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Laboratory Certifications

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FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 2 of 2

Sample ID : SPORT0692-1

M = Method

Method-Description

M 2 EPA 1311

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

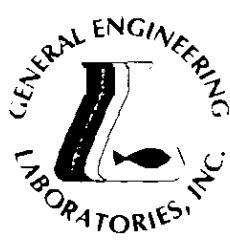
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed

- in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Catharine U. Rebe

Reviewed By



GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 1 of 2

Sample ID : SPORT0692-2
Lab ID : 9805645-02
Matrix : TCLP
Date Collected : 05/20/98
Date Received : 05/21/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>TCLP Volatile Compounds - 11 items</i>											
1,1-Dichloroethylene	U	0.00	2.50	70.0	ug/l	10.	JEB	05/30/98	1126	123044	
1,2-Dichloroethane	U	0.00	2.30	50.0	ug/l	10.					
1,4-Dichlorobenzene	U	0.00	2.70	750	ug/l	10.					
2-Butanone	U	14.1	21.2	2000	ug/l	10.					
Benzene	U	0.00	2.50	50.0	ug/l	10.					
Carbon Tetrachloride	U	0.00	2.20	20.0	ug/l	10.					
Chlorobenzene	U	0.00	2.50	1000	ug/l	10.					
Chloroform	J	7.70	2.40	600	ug/l	10.					
Tetrachloroethylene	U	0.00	2.30	70.0	ug/l	10.					
Trichloroethylene	J	9.70	2.70	50.0	ug/l	10.					
Vinyl chloride	U	0.00	4.00	20.0	ug/l	10.					

The following prep procedures were performed:

TCLP Extraction - Volatiles

JL 05/29/98 0020 123052 2

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	TCLP VOA-8260	89.4	(80.0 - 128.)
Dibromofluoromethane	TCLP VOA-8260	91.9	(67.7 - 135.)
Toluene-d8	TCLP VOA-8260	101.	(76.8 - 122.)

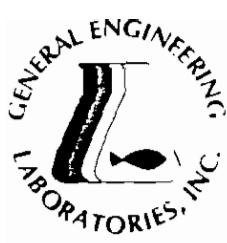
M = Method	Method-Description
M 1	EPA 8260

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9805645-02



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STATE	GEL	EPI
FL	E87156/87294	E87472
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 2 of 2

Sample ID : SPORT0692-2

M = Method

Method-Description

M 2 EPA 1311

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

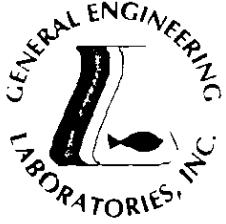
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Catherine Hiers

Reviewed By



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Laboratory Certifications		
STATE	GEL	EPI
FL	E8715687294	E874728
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 1 of 2

Sample ID	:	SPORT0692-3
Lab ID	:	9805645-03
Matrix	:	TCLP
Date Collected	:	05/20/98
Date Received	:	05/21/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>TCLP Volatile Compounds - 11 items</i>											
1,1-Dichloroethylene	U	0.00	2.50	70.0	ug/l	10.	JEB	05/30/98	1158	123044	.
1,2-Dichloroethane	U	0.00	2.30	50.0	ug/l	10.					
1,4-Dichlorobenzene	U	0.00	2.70	750	ug/l	10.					
2-Butanone	U	6.60	21.2	2000	ug/l	10.					
Benzene	U	0.00	2.50	50.0	ug/l	10.					
Carbon Tetrachloride	U	0.00	2.20	20.0	ug/l	10.					
Chlorobenzene	U	0.00	2.50	1000	ug/l	10.					
Chloroform	J	6.80	2.40	600	ug/l	10.					
Tetrachloroethylene	U	0.00	2.30	70.0	ug/l	10.					
Trichloroethylene		239	2.70	50.0	ug/l	10.					
Vinyl chloride	U	0.00	4.00	20.0	ug/l	10.					

The following prep procedures were performed:

TCLP Extraction - Volatiles

JL 05/29/98 0020 123052 2

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	TCLP VOA-8260	90.4	(80.0 - 128.)
Dibromofluoromethane	TCLP VOA-8260	90.8	(67.7 - 135.)
Toluene-d8	TCLP VOA-8260	104.	(76.8 - 122.)

M = Method	Method-Description
M 1	EPA 8260

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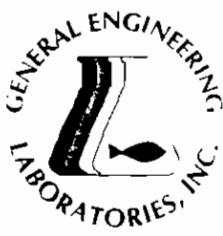
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9805645-03



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STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 2 of 2

Sample ID : SPORT0692-3

M = Method**Method-Description**

M 2

EPA 1311

Notes:

The qualifiers in this report are defined as follows:

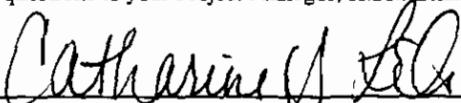
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.



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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/1
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 1 of 2

Sample ID	:	SPORT0692-4
Lab ID	:	9805645-04
Matrix	:	TCLP
Date Collected	:	05/20/98
Date Received	:	05/21/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>TCLP Volatile Compounds - 11 items</i>											
1,1-Dichloroethylene	U	0.00	2.50	70.0	ug/l	10.	JEB	05/30/98	1230	123044	
1,2-Dichloroethane	U	0.00	2.30	50.0	ug/l	10.					
1,4-Dichlorobenzene	U	0.00	2.70	750	ug/l	10.					
2-Butanone	U	6.80	21.2	2000	ug/l	10.					
Benzene	U	0.00	2.50	50.0	ug/l	10.					
Carbon Tetrachloride	U	0.00	2.20	20.0	ug/l	10.					
Chlorobenzene	U	0.00	2.50	1000	ug/l	10.					
Chloroform	J	7.20	2.40	600	ug/l	10.					
Tetrachloroethylene	U	0.00	2.30	70.0	ug/l	10.					
Trichloroethylene		57.1	2.70	50.0	ug/l	10.					
Vinyl chloride	U	0.00	4.00	20.0	ug/l	10.					

The following prep procedures were performed:

TCLP Extraction - Volatiles

JL 05/29/98 0020 123052 2

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	TCLP VOA-8260	89.4	(80.0 - 128.)
Dibromofluoromethane	TCLP VOA-8260	91.8	(67.7 - 135.)
Toluene-d8	TCLP VOA-8260	100.	(76.8 - 122.)

M = Method	Method-Description
M 1	EPA 8260

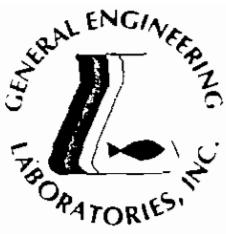
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STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 2 of 2

Sample ID : SPORT0692-4

M = Method	Method-Description
M 2	EPA 1311

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

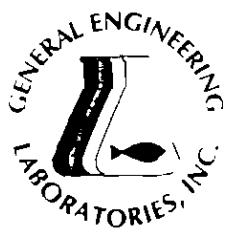
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Catharine D. Lee

Reviewed By





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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 1 of 2

Sample ID	:	SPORT0692-5
Lab ID	:	9805645-05
Matrix	:	TCLP
Date Collected	:	05/20/98
Date Received	:	05/21/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>TCLP Volatile Compounds - 11 items</i>											
1,1-Dichloroethylene	U	0.00	2.50	70.0	ug/l	10.	JEB	05/30/98	1301	123044	
1,2-Dichloroethane	U	0.00	2.30	50.0	ug/l	10.					
1,4-Dichlorobenzene	U	0.00	2.70	750	ug/l	10.					
2-Butanone	U	5.90	21.2	2000	ug/l	10.					
Benzene	U	0.00	2.50	50.0	ug/l	10.					
Carbon Tetrachloride	U	0.00	2.20	20.0	ug/l	10.					
Chlorobenzene	U	0.00	2.50	1000	ug/l	10.					
Chloroform	J	7.10	2.40	600	ug/l	10.					
Tetrachloroethylene	U	0.00	2.30	70.0	ug/l	10.					
Trichloroethylene		667	2.70	50.0	ug/l	10.					
Vinyl chloride	U	0.00	4.00	20.0	ug/l	10.					

The following prep procedures were performed:

TCLP Extraction - Volatiles

JL 05/29/98 0020 123052 2

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	TCLP VOA-8260	89.8	(80.0 - 128.)
Dibromofluoromethane	TCLP VOA-8260	91.4	(67.7 - 135.)
Toluene-d8	TCLP VOA-8260	100.	(76.8 - 122.)

M = Method

Method-Description

M 1

EPA 8260

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9805645-05



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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/8'
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 2 of 2

Sample ID : SPORT0692-5

M = Method

Method-Description

M2

EPA 1311

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Catharine Dill

Reviewed By

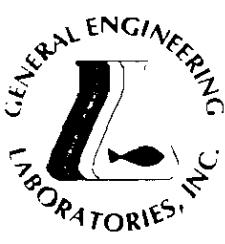
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Laboratory Certifications

STATE	GEL	EPI
FL	ER7156/87294	E874728
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 1 of 2

Sample ID : SPORT0692-6
Lab ID : 9805645-06
Matrix : TCLP
Date Collected : 05/20/98
Date Received : 05/21/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>TCLP Volatile Compounds - 11 items</i>											
1,1-Dichloroethylene	U	0.00	2.50	70.0	ug/l	10.	JEB	06/01/98	1011	123044	
1,2-Dichloroethane	U	0.00	2.30	50.0	ug/l	10.					
1,4-Dichlorobenzene	U	0.00	2.70	750	ug/l	10.					
2-Butanone	J	79.4	21.2	2000	ug/l	10.					
Benzene	U	0.00	2.50	50.0	ug/l	10.					
Carbon Tetrachloride	U	0.00	2.20	20.0	ug/l	10.					
Chlorobenzene	U	0.00	2.50	1000	ug/l	10.					
Chloroform	U	0.00	2.40	600	ug/l	10.					
Tetrachloroethylene	U	0.00	2.30	70.0	ug/l	10.					
Trichloroethylene	U	0.00	2.70	50.0	ug/l	10.					
Vinyl chloride	U	0.00	4.00	20.0	ug/l	10.					

The following prep procedures were performed:

TCLP Extraction - Volatiles

JL 05/29/98 1625 123052 2

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	TCLP VOA-8260	87.4	(80.0 - 128.)
Dibromofluoromethane	TCLP VOA-8260	90.0	(67.7 - 135.)
Toluene-d8	TCLP VOA-8260	101.	(76.8 - 122.)

M = Method

Method-Description

M 1

EPA 8260

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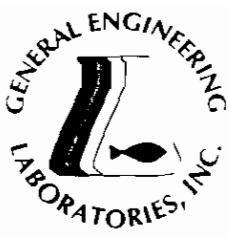
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FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 01, 1998

Page 2 of 2

Sample ID : SPORT0692-6

M = Method

Method-Description

M 2 EPA 1311

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9805645%

Report Date: June 02, 1998

Page 1 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Volatile Organics													
QCS10790		BLANK	123044								JEB	05/28/98	0905
1,1-Dichloroethylene							ug/l						
1,2-Dichloroethane							ug/l						
1,4-Dichlorobenzene							ug/l						
2-Butanone							ug/l						
Benzene							ug/l						
Carbon Tetrachloride							ug/l						
Chlorobenzene							ug/l						
Chloroform						0.520	ug/l						
Tetrachloroethylene						0.00	ug/l						
Trichloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
*Bromofluorobenzene							ug/l	84.8	(-)				
*Dibromo fluromethane							ug/l	91.0	(-)				
*Toluene-d8							ug/l	101	(-)				
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						
2-Butanone						0.00	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chloroform						0.520	ug/l						
Tetrachloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
QCS10791		BLANK	123044								JEB	05/28/98	1754
1,1-Dichloroethylene						0.00	ug/l						
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						
2-Butanone						24.3	ug/l						
Benzene						0.00	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chlorobenzene						0.00	ug/l						
Chloroform						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Trichloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
*Bromofluorobenzene							ug/l	84.8	(-)				
*Dibromo fluromethane							ug/l	93.9	(-)				
*Toluene-d8							ug/l	103	(-)				
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Lab. Sample ID: 9805645% Report Date: June 02, 1998 Page 2 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
2-Butanone						24.3	ug/l				JEB	05/28/98	1754
Carbon Tetrachloride						0.00	ug/l						
Chloroform						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
QC510792	BLANK	123044											
1,1-Dichloroethylene						0.00	ug/l				JEB	05/28/98	1233
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						
2-Butanone						27.6	ug/l						
Benzene						0.00	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chlorobenzene						0.00	ug/l						
Chloroform						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Trichloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
*Bromofluorobenzene							ug/l	89.3	(-)				
*Dibromofluoromethane							ug/l	90.8	(-)				
*Toluene-d8							ug/l	101	(-)				
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						
2-Butanone						27.6	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chloroform						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
QC511340	BLANK	123044											
1,1-Dichloroethylene						0.00	ug/l				JEB	05/30/98	0919
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						
2-Butanone						13.5	ug/l						
Benzene						0.00	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chlorobenzene						0.00	ug/l						
Chloroform						7.90	ug/l						
Tetrachloroethylene						0.00	ug/l						
Trichloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
* Bromofluorobenzene							ug/l	88.8	(80.0 - 128.)				

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

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Lab. Sample ID: 9805645%

Report Date: June 02, 1998

Page 3 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
*Dibromoformmethane							ug/l		92.1	(67.7 - 135.)	JEB	05/30/98	0919
*Toluene-d8							ug/l		101	(76.8 - 122.)			
1,2-Dichloroethane					0.00		ug/l						
1,4-Dichlorobenzene					0.00		ug/l						
2-Butanone					13.5		ug/l						
Carbon Tetrachloride					0.00		ug/l						
Chloroform					7.90		ug/l						
Tetrachloroethylene					0.00		ug/l						
Vinyl chloride					0.00		ug/l						
QC510793 9805594-07PS 123044													
1,1-Dichloroethylene				50	0.00	459	ug/l		91.7	(-)	JEB	05/28/98	1337
1,2-Dichloroethane				50	0.00	535	ug/l		107	(-)			
1,4-Dichlorobenzene				50	0.00	529	ug/l		106	(-)			
2-Butanone				250	22.9	2320	ug/l		91.9	(-)			
Benzene				50	0.00	494	ug/l		98.7	(-)			
Carbon Tetrachloride				50	0.00	485	ug/l		97.0	(-)			
Chlorobenzene				50	0.00	454	ug/l		90.8	(-)			
Chloroform				50	0.00	512	ug/l		102	(-)			
Tetrachloroethylene				50	0.00	835	ug/l		167	(-)			
Toluene				50	0.00	517	ug/l		103	(-)			
Trichloroethylene				50	0.00	613	ug/l		123	(-)			
Vinyl chloride				50	0.00	592	ug/l		118	(-)			
*Bromofluorobenzene				50		35.4	ug/l		70.9	(-)			
*Dibromoformmethane				50		45.5	ug/l		90.9	(-)			
*Toluene-d8				50		50.4	ug/l		101	(-)			
QC510795 9805691-02PS 123044													
1,1-Dichloroethylene				50	0.00	789	ug/l		158	(-)	JEB	05/28/98	1722
Benzene				50	0.00	619	ug/l		124	(-)			
Chlorobenzene				50	0.00	573	ug/l		115	(-)			
Toluene				50	0.00	649	ug/l		130	(-)			
Trichloroethylene				50	0.00	1160	ug/l		232	(-)			
*Bromofluorobenzene				50		37.7	ug/l		75.5	(-)			
*Dibromoformmethane				50		0.970	ug/l		1.94	(-)			
*Toluene-d8				50		49.4	ug/l		98.9	(-)			
QC510796 9805663-01PS 123044													
1,1-Dichloroethylene				50	0.00	444	ug/l		88.8	(-)	JEB	05/28/98	1618
Benzene				50	0.00	475	ug/l		95.1	(-)			
Chlorobenzene				50	0.00	442	ug/l		88.4	(-)			
Toluene				50	0.00	501	ug/l		100	(-)			
Trichloroethylene				50	0.00	598	ug/l		120	(-)			

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9805645%

Report Date: June 02, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
2-Butanone						24.3	ug/l				JEB	05/28/98	1754
Carbon Tetrachloride						0.00	ug/l						
Chloroform						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
QC510792		BLANK	123044										
1,1-Dichloroethylene						0.00	ug/l				JEB	05/28/98	1233
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						
2-Butanone						27.6	ug/l						
Benzene						0.00	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chlorobenzene						0.00	ug/l						
Chloroform						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Trichloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
*Bromofluorobenzene							ug/l	89.3	(-)				
*Dibromofluoromethane							ug/l	90.8	(-)				
*Toluene-d8							ug/l	101	(-)				
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						
2-Butanone						27.6	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chloroform						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
QC511340		BLANK	123044										
1,1-Dichloroethylene						0.00	ug/l				JEB	05/30/98	0919
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						
2-Butanone						13.5	ug/l						
Benzene						0.00	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chlorobenzene						0.00	ug/l						
Chloroform						7.90	ug/l						
Tetrachloroethylene						0.00	ug/l						
Trichloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
*Bromofluorobenzene							ug/l	88.8	(80.0 - 128.)				

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Lab. Sample ID: 9805645% Report Date: June 02, 1998 Page 3 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
*Dibromoformmethane							ug/l		92.1	(67.7 - 135.)	JEB	05/30/98	0919
*Toluene-d8							ug/l		101	(76.8 - 122.)			
1,2-Dichloroethane						0.00	ug/l						
1,4-Dichlorobenzene						0.00	ug/l						
2-Butanone						13.5	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chloroform						7.90	ug/l						
Tetrachloroethylene						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
QC510793 9805594-07PS 123044													
1,1-Dichloroethylene				50	0.00	459	ug/l		91.7	(-)	JEB	05/28/98	1337
1,2-Dichloroethane				50	0.00	535	ug/l		107	(-)			
1,4-Dichlorobenzene				50	0.00	529	ug/l		106	(-)			
2-Butanone				250	22.9	2320	ug/l		91.9	(-)			
Benzene				50	0.00	494	ug/l		98.7	(-)			
Carbon Tetrachloride				50	0.00	485	ug/l		97.0	(-)			
Chlorobenzene				50	0.00	454	ug/l		90.8	(-)			
Chloroform				50	0.00	512	ug/l		102	(-)			
Tetrachloroethylene				50	0.00	835	ug/l		167	(-)			
Toluene				50	0.00	517	ug/l		103	(-)			
Trichloroethylene				50	0.00	613	ug/l		123	(-)			
Vinyl chloride				50	0.00	592	ug/l		118	(-)			
*Bromofluorobenzene				50		35.4	ug/l		70.9	(-)			
*Dibromoformmethane				50		45.5	ug/l		90.9	(-)			
*Toluene-d8				50		50.4	ug/l		101	(-)			
QC510795 9805691-02PS 123044													
1,1-Dichloroethylene				50	0.00	789	ug/l		158	(-)	JEB	05/28/98	1722
Benzene				50	0.00	619	ug/l		124	(-)			
Chlorobenzene				50	0.00	573	ug/l		115	(-)			
Toluene				50	0.00	649	ug/l		130	(-)			
Trichloroethylene				50	0.00	1160	ug/l		232	(-)			
*Bromofluorobenzene				50		37.7	ug/l		75.5	(-)			
*Dibromoformmethane				50		0.970	ug/l		1.94	(-)			
*Toluene-d8				50		49.4	ug/l		98.9	(-)			
QC510796 9805663-01PS 123044													
1,1-Dichloroethylene				50	0.00	444	ug/l		88.8	(-)	JEB	05/28/98	1618
Benzene				50	0.00	475	ug/l		95.1	(-)			
Chlorobenzene				50	0.00	442	ug/l		88.4	(-)			
Toluene				50	0.00	501	ug/l		100	(-)			
Trichloroethylene				50	0.00	598	ug/l		120	(-)			

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9805645%

Report Date: June 02, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
*Bromofluorobenzene			50			36.5	ug/l		73.0	(-)	JEB	05/28/98	1618
*Dibromo fluromethane			50			45.6	ug/l		91.2	(-)			
*Toluene-d8			50			50.2	ug/l		100	(-)			
QC511341	9805645-01PS	123044											
1,1-Dichloroethylene			50	0.00		484	ug/l		96.7		JEB	05/30/98	1054
Benzene			50	0.00		513	ug/l		103				
Chlorobenzene			50	0.00		475	ug/l		94.9				
Toluene			50	5.10		540	ug/l		108				
Trichloroethylene			50	9.00		650	ug/l		128				
*Bromo fluorobenzene			50			38.0	ug/l		75.9**	(80.0 - 128.)			
*Dibromo fluromethane			50			46.1	ug/l		92.1	(67.7 - 135.)			
*Toluene-d8			50			50.0	ug/l		100	(76.8 - 122.)			
QC510794	9805594-07PSD	123044											
1,1-Dichloroethylene			50	0.00		452	ug/l	1.36	90.5	(-)	JEB	05/28/98	
1,2-Dichloroethane			50	0.00		526	ug/l	1.79	105	(-)			
1,4-Dichlorobenzene			50	0.00		517	ug/l	2.32	103	(-)			
2-Butanone			250	22.9		2590	ug/l	11.1	103	(-)			
Benzene			50	0.00		487	ug/l	1.37	97.4	(-)			
Carbon Tetrachloride			50	0.00		484	ug/l	0.144	96.9	(-)			
Chlorobenzene			50	0.00		452	ug/l	0.552	90.3	(-)			
Chloroform			50	0.00		504	ug/l	1.67	101	(-)			
Tetrachloroethylene			50	0.00		753	ug/l	10.3	151	(-)			
Toluene			50	0.00		498	ug/l	3.72	99.6	(-)			
Trichloroethylene			50	0.00		589	ug/l	3.99	118	(-)			
Vinyl chloride			50	0.00		458	ug/l	25.5	91.6	(-)			
*Bromo fluorobenzene			50			38.7	ug/l		77.4	(-)			
*Dibromo fluromethane			50			45.9	ug/l		91.8	(-)			
*Toluene-d8			50			49.2	ug/l		98.4	(-)			
1,2-Dichloroethane			50	0.00		526	ug/l						
1,4-Dichlorobenzene			50	0.00		517	ug/l						
2-Butanone			250	22.9		2590	ug/l						
Carbon Tetrachloride			50	0.00		484	ug/l						
Chloroform			50	0.00		504	ug/l						
Tetrachloroethylene			50	0.00		753	ug/l						
Vinyl chloride			50	0.00		458	ug/l						

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9805645%

Report Date: June 02, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD %	REC %	Range	Analyst	Date	Time
------------------	------	-------	-----	--------	------	----	-------	-------	-------	-------	---------	------	------

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when
sample concentration exceeds spike conc by a factor of 4 or more

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CHAIN OF CUSTODY RECORD

9805645%

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Charleston, South Carolina 29417
(803) 556-8171

*TCP VOLATILES

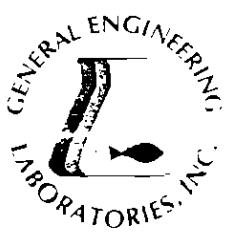
Relinquished by: Matt W. Johnson **Date:** 5/20/98 **Time:** 15:04 **Received by:** Vivian Blakemore **Relinquished by:** Dinner (Christie, P.) **Date:** 5/21/98 **Time:** 16:00 **Received by:** Karen Blakemore

Relinquished by: Brian J. Blakemore **Date:** 5/21/98 **Time:** 16:20 **Received by lab:** Karen Blakemore **Date:** 5/21/98 **Time:** 16:20 **Remarks:**

White = sample collector

Yellow = file

Pink = with report



GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID	: SPORT0804-1
Lab ID	: 9809429-01
Matrix	: Soil
Date Collected	: 09/14/98
Date Received	: 09/14/98
Priority	: Routine
Collector	: Client

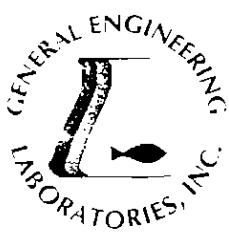
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.194	1.00	ug/kg	1.0	TCL	09/15/98	1715	131261	,
1,1,1-Trichloroethane	U	ND	0.0969	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.581	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.291	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0969	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.291	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.388	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.388	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.194	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.485	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.194	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.194	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0969	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0969	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.10	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.71	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.00	5.00	ug/kg	1.0					
Acetone		10.6	9.98	9.98	ug/kg	1.0					
Acetonitrile	U	ND	0.969	25.0	ug/kg	1.0					
Acrolein	U	ND	4.46	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.78	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.388	5.00	ug/kg	1.0					
Benzene	U	ND	0.485	1.00	ug/kg	1.0					
Bromoform	U	ND	0.291	1.00	ug/kg	1.0					
Carbon Disulfide	J	0.485	0.291	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.485	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.291	1.00	ug/kg	1.0					

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9809429-01



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	23J	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

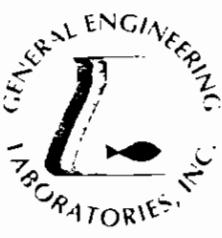
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.194	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.291	1.00	ug/kg	1.0	TCL	09/15/98	1715	131261	1
Chloroform	U	ND	0.0969	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.69	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.194	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0969	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.16	1.16	ug/kg	1.0					
Ethylbenzene	U	ND	0.291	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.10	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.872	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.291	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.194	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.581	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.388	5.00	ug/kg	1.0					
Methylene Chloride		3.47	1.36	1.36	ug/kg	1.0					
Propionitrile	U	ND	3.29	10.0	ug/kg	1.0					
Styrene	U	ND	0.291	1.00	ug/kg	1.0					
Tetrachloroethylene	J	0.959	0.388	1.00	ug/kg	1.0					
Toluene	U	ND	0.872	1.00	ug/kg	1.0					
Trichloroethylene		98.8	0.291	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.291	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.03	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.388	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.678	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.93	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.194	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.291	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.485	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 0912 131261 2

Comments:



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	93.9	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	100.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	103.	(72.1 - 137.)

M = Method	Method-Description
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M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

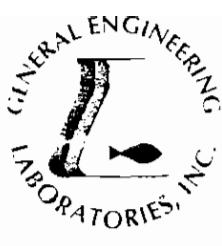
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID : SPORT0804-2
Lab ID : 9809429-02
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

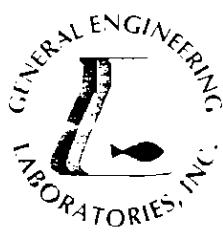
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.202	1.01	ug/kg	1.0	TCL	09/16/98	1116	131261	.
1,1,1-Trichloroethane	U	ND	0.101	1.01	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.606	1.01	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.303	1.01	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.101	1.01	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.303	1.01	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.404	1.01	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.404	1.01	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.505	1.01	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.101	1.01	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.101	1.01	ug/kg	1.0					
2-Butanone	U	ND	3.23	5.05	ug/kg	1.0					
2-Hexanone	U	ND	2.83	5.05	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.13	5.05	ug/kg	1.0					
Acetone	U	ND	10.4	10.4	ug/kg	1.0					
Acetonitrile	U	ND	1.01	25.3	ug/kg	1.0					
Acrolein	U	ND	4.65	10.1	ug/kg	1.0					
Acrylonitrile	U	ND	3.94	10.1	ug/kg	1.0					
Allyl Chloride	U	ND	0.404	5.05	ug/kg	1.0					
Benzene	U	ND	0.505	1.01	ug/kg	1.0					
Bromoform	U	ND	0.303	1.01	ug/kg	1.0					
Carbon Disulfide	U	ND	0.303	5.05	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.505	1.01	ug/kg	1.0					
Chlorobenzene	U	ND	0.303	1.01	ug/kg	1.0					

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9809429-02



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

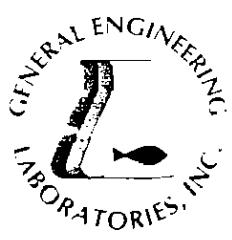
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.202	1.01	ug/kg	1.0					
Chloroethane	U	ND	0.303	1.01	ug/kg	1.0	TCL	09/16/98	1116	131261	1
Chloroform	U	ND	0.101	1.01	ug/kg	1.0					
Chloroprene	U	ND	10.1	20.2	ug/kg	1.0					
Dibromomethane	U	ND	0.202	1.01	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.101	1.01	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.21	1.21	ug/kg	1.0					
Ethylbenzene	U	ND	0.303	1.01	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.36	10.1	ug/kg	1.0					
Methacrylonitrile	U	ND	0.909	5.05	ug/kg	1.0					
Methyl Bromide	U	ND	0.303	1.01	ug/kg	1.0					
Methyl Chloride	U	ND	0.202	1.01	ug/kg	1.0					
Methyl Iodide	U	ND	0.606	5.05	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.404	5.05	ug/kg	1.0					
Methylene Chloride	U	ND	1.41	1.41	ug/kg	1.0					
Propionitrile	U	ND	3.43	10.1	ug/kg	1.0					
Styrene	U	ND	0.303	1.01	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.404	1.01	ug/kg	1.0					
Toluene	U	ND	0.909	1.01	ug/kg	1.0					
Trichloroethylene		4.81	0.303	1.01	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.303	1.01	ug/kg	1.0					
Vinyl Acetate	U	ND	2.12	5.05	ug/kg	1.0					
Vinyl chloride	U	ND	0.404	1.01	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.707	2.02	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.14	10.1	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.202	1.01	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.303	1.01	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.505	5.05	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 0920 131261 2

Comments:



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	81.7	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	103.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	86.0	(72.1 - 137.)

M = Method	Method-Description
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M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

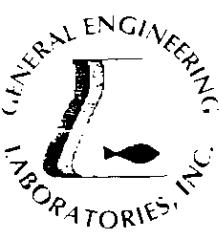
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney





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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID	:	SPORT0804-3
Lab ID	:	9809429-03
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.193	1.00	ug/kg	1.0	TCL	09/15/98	1819	131261	1
1,1,1-Trichloroethane	U	ND	0.0965	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.579	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.290	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0965	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.290	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.386	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.386	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.193	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.483	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.193	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.193	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0965	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0965	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.09	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.70	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.99	5.00	ug/kg	1.0					
Acetone		16.1	9.94	9.94	ug/kg	1.0					
Acetonitrile	U	ND	0.965	25.0	ug/kg	1.0					
Acrolein	U	ND	4.44	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.76	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.386	5.00	ug/kg	1.0					
Benzene	U	ND	0.483	1.00	ug/kg	1.0					
Bromoform	U	ND	0.290	1.00	ug/kg	1.0					
Carbon Disulfide	U	ND	0.290	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.483	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.290	1.00	ug/kg	1.0					

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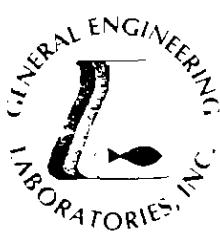
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9809429-03



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Sample ID : SPORT0804-3

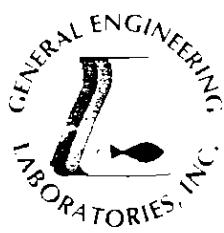
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.193	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.290	1.00	ug/kg	1.0	TCL	09/15/98	1819	131261	1
Chloroform	J	0.550	0.0965	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.65	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.193	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0965	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.16	1.16	ug/kg	1.0					
Ethylbenzene	U	ND	0.290	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.08	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.869	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.290	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.193	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.579	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.386	5.00	ug/kg	1.0					
Methylene Chloride		2.87		1.35	ug/kg	1.0					
Propionitrile	U	ND	3.28	10.0	ug/kg	1.0					
Styrene	U	ND	0.290	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.386	1.00	ug/kg	1.0					
Toluene	U	ND	0.869	1.00	ug/kg	1.0					
Trichloroethylene		17.2	0.290	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.290	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.03	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.386	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.676	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.91	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.193	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.290	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.483	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 0924 131261 2

Comments:



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NC	233	
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TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID		SPORT0804-3									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											
Surrogate Recovery											
Bromofluorobenzene APP 9 VOA-8260B 82.7 (53.5 - 154.)											
Dibromofluoromethane APP 9 VOA-8260B 99.2 (63.4 - 136.)											
Toluene-d8 APP 9 VOA-8260B 85.6 (72.1 - 137.)											

M = Method

Method-Description

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney



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STATE	GEL	EPI
FL	E87156/87293	E87472/8741
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID : SPORT0804-4
Lab ID : 9809429-04
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.286	1.43	ug/kg	1.0	TCL	09/15/98	1851	J31261	1
1,1,1-Trichloroethane	U	ND	0.143	1.43	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.858	1.43	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.429	1.43	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.143	1.43	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.429	1.43	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.572	1.43	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.572	1.43	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.286	1.43	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.715	1.43	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.286	1.43	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.286	1.43	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.143	1.43	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.143	1.43	ug/kg	1.0					
2-Butanone	U	ND	4.58	7.15	ug/kg	1.0					
2-Hexanone	U	ND	4.00	7.15	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	4.43	7.15	ug/kg	1.0					
Acetone		17.4	14.7	14.7	ug/kg	1.0					
Acetonitrile	U	ND	1.43	35.8	ug/kg	1.0					
Acrolein	U	ND	6.58	14.3	ug/kg	1.0					
Acrylonitrile	U	ND	5.58	14.3	ug/kg	1.0					
Allyl Chloride	U	ND	0.572	7.15	ug/kg	1.0					
Benzene	J	1.24	0.715	1.43	ug/kg	1.0					
Bromoform	U	ND	0.429	1.43	ug/kg	1.0					
Carbon Disulfide	U	ND	0.429	7.15	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.715	1.43	ug/kg	1.0					
Chlorobenzene	U	ND	0.429	1.43	ug/kg	1.0					

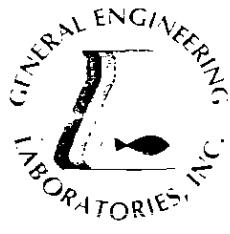
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9809429-04

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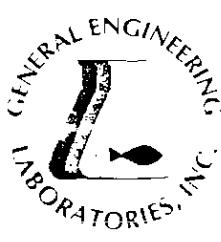
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.286	1.43	ug/kg	1.0					
Chloroethane	U	ND	0.429	1.43	ug/kg	1.0	TCL	09/15/98	1851	131261	1
Chloroform	U	ND	0.143	1.43	ug/kg	1.0					
Chloroprene	U	ND	14.3	28.6	ug/kg	1.0					
Dibromomethane	U	ND	0.286	1.43	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.143	1.43	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.72	1.72	ug/kg	1.0					
Ethylbenzene	U	ND	0.429	1.43	ug/kg	1.0					
Isobutyl Alcohol	U	ND	9.01	14.3	ug/kg	1.0					
Methacrylonitrile	U	ND	1.29	7.15	ug/kg	1.0					
Methyl Bromide	U	ND	0.429	1.43	ug/kg	1.0					
Methyl Chloride	U	ND	0.286	1.43	ug/kg	1.0					
Methyl Iodide	U	ND	0.858	7.15	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.572	7.15	ug/kg	1.0					
Methylene Chloride	U	ND	2.00	2.00	ug/kg	1.0					
Propionitrile	U	ND	4.86	14.3	ug/kg	1.0					
Styrene	U	ND	0.429	1.43	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.572	1.43	ug/kg	1.0					
Toluene	U	ND	1.29	1.43	ug/kg	1.0					
Trichloroethylene		28.7	0.429	1.43	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.429	1.43	ug/kg	1.0					
Vinyl Acetate	U	ND	3.00	7.15	ug/kg	1.0					
Vinyl chloride	U	ND	0.572	1.43	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	1.00	2.86	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	7.28	14.3	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.286	1.43	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.429	1.43	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.715	7.15	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 0934 131261 2

Comments:



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TN	02934	02934

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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

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Sample ID : SPORT0804-4

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	86.2	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	100.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	88.5	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

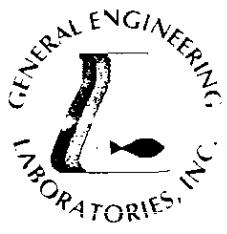
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney



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TN	02934	02934

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0804-5
Lab ID : 9809429-05
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.188	1.00	ug/kg	1.0	TCL	09/15/98	1921	131261	1
1,1,1-Trichloroethane	U	ND	0.0938	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.563	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.281	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0938	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.281	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.375	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.375	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.188	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.469	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.188	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.188	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0938	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0938	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.00	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.63	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.91	5.00	ug/kg	1.0					
Acetone		9.96	9.66	9.66	ug/kg	1.0					
Acetonitrile	U	ND	0.938	25.0	ug/kg	1.0					
Acrocin	U	ND	4.31	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.66	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.375	5.00	ug/kg	1.0					
Benzene	U	ND	0.469	1.00	ug/kg	1.0					
Bromoform	U	ND	0.281	1.00	ug/kg	1.0					
Carbon Disulfide	J	0.713	0.281	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.469	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.281	1.00	ug/kg	1.0					

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TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.188	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.281	1.00	ug/kg	1.0	TCL	09/15/98	1921	131261	1
Chloroform	U	ND	0.0938	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.38	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.188	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0938	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.13	1.13	ug/kg	1.0					
Ethylbenzene	U	ND	0.281	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.91	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.844	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.281	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.188	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.563	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.375	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.31	1.31	ug/kg	1.0					
Propionitrile	U	ND	3.19	10.0	ug/kg	1.0					
Styrene	U	ND	0.281	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.375	1.00	ug/kg	1.0					
Toluene	U	ND	0.844	1.00	ug/kg	1.0					
Trichloroethylene		19.9	0.281	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.281	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	1.97	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.375	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.657	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.77	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.188	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.281	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.469	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

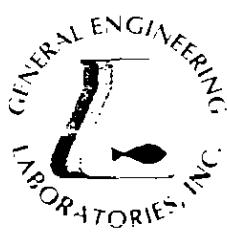
TCL 09/15/98 0940 131261 2

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NC	233	
SC	10120	10582
TN	02934	02934

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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Page 3 of 3

Sample ID : SPORT0804-5

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	82.9	(53.5 - 154.)
Dibromoefluoromethane	APP 9 VOA-8260B	106.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	88.4	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
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Reviewed By

Karen Blakeney



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NC	233	
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TN	02934	02934

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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0804-6
Lab ID : 9809429-06
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

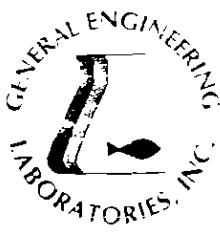
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.195	1.00	ug/kg	1.0	TCL	09/15/98	1952	131261	1
1,1,1-Trichloroethane	U	ND	0.0973	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.584	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.292	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0973	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.292	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.389	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.389	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.195	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.487	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.195	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.195	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0973	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0973	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.11	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.72	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.02	5.00	ug/kg	1.0					
Acetone		14.3	10.0	10.0	ug/kg	1.0					
Acetonitrile	U	ND	0.973	25.0	ug/kg	1.0					
Acrolein	U	ND	4.48	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.79	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.389	5.00	ug/kg	1.0					
Benzene	U	ND	0.487	1.00	ug/kg	1.0					
Bromoform	U	ND	0.292	1.00	ug/kg	1.0					
Carbon Disulfide	J	0.516	0.292	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.487	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.292	1.00	ug/kg	1.0					

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9809429-06



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

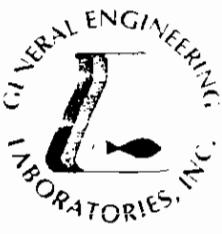
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.195	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.292	1.00	ug/kg	1.0	TCL	09/15/98	1952	131261	1
Chloroform	U	ND	0.0973	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.73	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.195	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0973	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.17	1.17	ug/kg	1.0					
Ethylbenzene	U	ND	0.292	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.13	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.876	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.292	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.195	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.584	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.389	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.36	1.36	ug/kg	1.0					
Propionitrile	U	ND	3.31	10.0	ug/kg	1.0					
Styrene	U	ND	0.292	1.00	ug/kg	1.0					
Tetrachloroethylene	J	0.788	0.389	1.00	ug/kg	1.0					
Toluene	U	ND	0.876	1.00	ug/kg	1.0					
Trichloroethylene		68.1	0.292	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.292	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.04	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.389	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.681	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.95	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.195	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.292	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.487	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 0945 131261 2

Comments:



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-6

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											
Surrogate Recovery	Test	Percent %	Acceptable Limits								
Bromofluorobenzene	APP 9 VOA-8260B	87.9	(53.5 - 154.)								
Dibromofluoromethane	APP 9 VOA-8260B	106.	(63.4 - 136.)								
Toluene-d8	APP 9 VOA-8260B	88.5	(72.1 - 137.)								

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

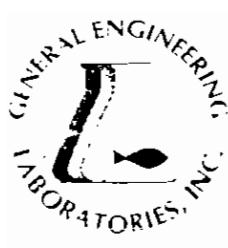
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E37472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

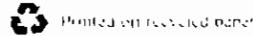
Page 1 of 3

Sample ID : SPORT0804-7
Lab ID : 9809429-07
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

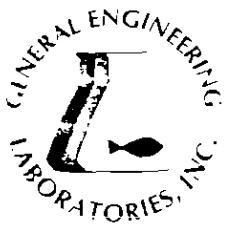
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.214	1.07	ug/kg	1.0	TCL	09/15/98	2023	131261	1
1,1,1-Trichloroethane	U	ND	0.107	1.07	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.642	1.07	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.321	1.07	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.107	1.07	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.321	1.07	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.428	1.07	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.428	1.07	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.214	1.07	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.535	1.07	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.214	1.07	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.214	1.07	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.107	1.07	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.107	1.07	ug/kg	1.0					
2-Butanone	U	ND	3.42	5.35	ug/kg	1.0					
2-Hexanone	U	ND	3.00	5.35	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.32	5.35	ug/kg	1.0					
Acetone		17.9	11.0	11.0	ug/kg	1.0					
Acetonitrile	U	ND	1.07	26.8	ug/kg	1.0					
Acrolein	U	ND	4.92	10.7	ug/kg	1.0					
Acrylonitrile	U	ND	4.17	10.7	ug/kg	1.0					
Allyl Chloride	U	ND	0.428	5.35	ug/kg	1.0					
Benzene		2.02	0.535	1.07	ug/kg	1.0					
Bromoform	U	ND	0.321	1.07	ug/kg	1.0					
Carbon Disulfide	J	2.63	0.321	5.35	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.535	1.07	ug/kg	1.0					
Chlorobenzene	U	ND	0.321	1.07	ug/kg	1.0					

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9809429-07



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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.214	1.07	ug/kg	1.0					
Chloroethane	U	ND	0.321	1.07	ug/kg	1.0	TCL	09/15/98	2023	131261	1
Chloroform	U	ND	0.107	1.07	ug/kg	1.0					
Chloroprene	U	ND	10.7	21.4	ug/kg	1.0					
Dibromomethane	U	ND	0.214	1.07	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.107	1.07	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.28	1.28	ug/kg	1.0					
Ethybenzene	U	ND	0.321	1.07	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.74	10.7	ug/kg	1.0					
Methacrylonitrile	U	ND	0.963	5.35	ug/kg	1.0					
Methyl Bromide	U	ND	0.321	1.07	ug/kg	1.0					
Methyl Chloride	U	ND	0.214	1.07	ug/kg	1.0					
Methyl Iodide	U	ND	0.642	5.35	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.428	5.35	ug/kg	1.0					
Methiene Chloride	U	ND	1.50	1.50	ug/kg	1.0					
Propionitrile	U	ND	3.64	10.7	ug/kg	1.0					
Styrene	U	ND	0.321	1.07	ug/kg	1.0					
Tetrachloroethylene	J	0.813	0.428	1.07	ug/kg	1.0					
Toluene		1.42	0.963	1.07	ug/kg	1.0					
Trichloroethylene	J	71.2	33.4	111	ug/kg	100	TCL	09/16/98	1405	131261	1
Trichlorofluoromethane	U	ND	0.321	1.07	ug/kg	1.0	TCL	09/15/98	2023	131261	1
Vinyl Acetate	U	ND	2.25	5.35	ug/kg	1.0					
Vinyl chloride	U	ND	0.428	1.07	ug/kg	1.0					
Xylenes (TOTAL)	J	1.49	0.749	2.14	ug/kg	1.0					
bis(2-Chloromerhylethyl)ether	U	ND	5.45	10.7	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.214	1.07	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.321	1.07	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.535	5.35	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 0950 131261 2

Comments:



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02954	02954

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Derachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-7

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	96.1	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	104.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	93.4	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID : SPORT0804-8
Lab ID : 9809429-08
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

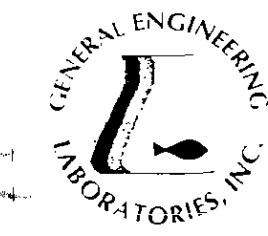
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.228	1.14	ug/kg	1.0	TCL	09/15/98	2054	131261	1
1,1,1-Trichloroethane	U	ND	0.114	1.14	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.684	1.14	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.342	1.14	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.114	1.14	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.342	1.14	ug/kg	1.0					
1,2,3-Trichloroproppane	U	ND	0.456	1.14	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.456	1.14	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.228	1.14	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.570	1.14	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.228	1.14	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.228	1.14	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.114	1.14	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.114	1.14	ug/kg	1.0					
2-Butanone	U	ND	3.65	5.70	ug/kg	1.0					
2-Hexanone	U	ND	3.19	5.70	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.53	5.70	ug/kg	1.0					
Acetone		12.6	11.7	11.7	ug/kg	1.0					
Acetonitrile	U	ND	1.14	28.5	ug/kg	1.0					
Acrolein	U	ND	5.24	11.4	ug/kg	1.0					
Acrylonitrile	U	ND	4.45	11.4	ug/kg	1.0					
Allyl Chloride	U	ND	0.456	5.70	ug/kg	1.0					
Benzene	U	ND	0.570	1.14	ug/kg	1.0					
Bromoform	U	ND	0.342	1.14	ug/kg	1.0					
Carbon Disulfide	U	ND	0.342	5.70	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.570	1.14	ug/kg	1.0					
Chlorobenzene	U	ND	0.342	1.14	ug/kg	1.0					

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STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.228	1.14	ug/kg	1.0					
Chloroethane	U	ND	0.342	1.14	ug/kg	1.0	TCL	09/15/98	2054	131261	1
Chloroform	U	ND	0.114	1.14	ug/kg	1.0					
Chloroprene	U	ND	11.4	22.8	ug/kg	1.0					
Dibromomethane	U	ND	0.228	1.14	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.114	1.14	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.37	1.37	ug/kg	1.0					
Ethylbenzene	U	ND	0.342	1.14	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.18	11.4	ug/kg	1.0					
Methacrylonitrile	U	ND	1.03	5.70	ug/kg	1.0					
Methyl Bromide	U	ND	0.342	1.14	ug/kg	1.0					
Methyl Chloride	U	ND	0.228	1.14	ug/kg	1.0					
Methyl Iodide	U	ND	0.684	5.70	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.456	5.70	ug/kg	1.0					
Methylene Chloride	U	ND	1.60	1.60	ug/kg	1.0					
Propionitrile	U	ND	3.88	11.4	ug/kg	1.0					
Syrene	U	ND	0.342	1.14	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.456	1.14	ug/kg	1.0					
Toluene	U	ND	1.03	1.14	ug/kg	1.0					
Trichloroethylene		3.63	0.342	1.14	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.342	1.14	ug/kg	1.0					
Vinyl Acetate	U	ND	2.39	5.70	ug/kg	1.0					
Vinyl chloride	U	ND	0.456	1.14	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.798	2.28	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.80	11.4	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.228	1.14	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.342	1.14	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.570	5.70	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 0957 131261 2

Comments:





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STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID		: SPORT0804-8																	
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M								
Data reported in mass/mass units is reported 'as received'.																			
Surrogate Recovery	Test		Percent %	Acceptable Limits															
Bromofluorobenzene	APP 9 VOA-8260B		82.7	(53.5 - 154.)															
Dibromofluoromethane	APP 9 VOA-8260B		105.	(63.4 - 136.)															
Toluene-d8	APP 9 VOA-8260B		87.9	(72.1 - 137.)															
M = Method			Method Description																
M 1			EPA 8260B																
M 2			EPA 5035																

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

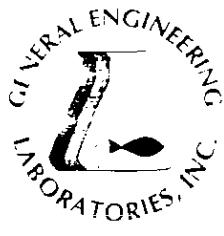
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* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID	: SPORT0804-9
Lab ID	: 9809429-09
Matrix	: Soil
Date Collected	: 09/14/98
Date Received	: 09/14/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.232	1.16	ug/kg	1.0	TCL	09/15/98	2124	131261	1
1,1,1-Trichloroethane	U	ND	0.116	1.16	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.696	1.16	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.348	1.16	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.116	1.16	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.348	1.16	ug/kg	1.0					
1,2,3-Trichloropropene	U	ND	0.464	1.16	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.464	1.16	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.232	1.16	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.580	1.16	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.232	1.16	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.232	1.16	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.116	1.16	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.116	1.16	ug/kg	1.0					
2-Butanone	U	ND	3.71	5.80	ug/kg	1.0					
2-Hexanone	U	ND	3.25	5.80	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.60	5.80	ug/kg	1.0					
Acetone		34.5	11.9	11.9	ug/kg	1.0					
Acetonitrile	U	ND	1.16	29.0	ug/kg	1.0					
Acrolein	U	ND	5.34	11.6	ug/kg	1.0					
Acrylonitrile	U	ND	4.52	11.6	ug/kg	1.0					
Allyl Chloride	U	ND	0.464	5.80	ug/kg	1.0					
Benzene	U	ND	0.580	1.16	ug/kg	1.0					
Bromoform	U	ND	0.348	1.16	ug/kg	1.0					
Carbon Disulfide	U	ND	0.348	5.80	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.580	1.16	ug/kg	1.0					
Chlorobenzene	U	ND	0.348	1.16	ug/kg	1.0					

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9809429-09





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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

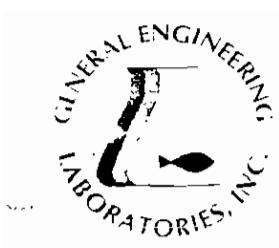
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.232	1.16	ug/kg	1.0					
Chloroethane	U	ND	0.348	1.16	ug/kg	1.0	TCL	09/15/98	2124	131261	1
Chloroform	U	ND	0.116	1.16	ug/kg	1.0					
Chloroprene	U	ND	11.6	23.2	ug/kg	1.0					
Dibromomethane	U	ND	0.232	1.16	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.116	1.16	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.39	1.39	ug/kg	1.0					
Ethylbenzene	U	ND	0.348	1.16	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.31	11.6	ug/kg	1.0					
Methacrylonitrile	U	ND	1.04	5.80	ug/kg	1.0					
Methyl Bromide	U	ND	0.348	1.16	ug/kg	1.0					
Methyl Chloride	U	ND	0.232	1.16	ug/kg	1.0					
Methyl Iodide	U	ND	0.696	5.80	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.464	5.80	ug/kg	1.0					
Methylene Chloride	U	ND	1.62	1.62	ug/kg	1.0					
Propionitrile	U	ND	3.94	11.6	ug/kg	1.0					
Styrene	U	ND	0.348	1.16	ug/kg	1.0					
Tetrachloroethylene		5.90	0.464	1.16	ug/kg	1.0					
Toluene	U	ND	1.04	1.16	ug/kg	1.0					
Trichloroethylene		387	34.1	114	ug/kg	98.	TCL	09/16/98	1440	131261	1
Trichlorofluoromethane	U	ND	0.348	1.16	ug/kg	1.0	TCL	09/15/98	2124	131261	1
Vinyl Acetate	U	ND	2.44	5.80	ug/kg	1.0					
Vinyl chloride	U	ND	0.464	1.16	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.812	2.32	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.90	11.6	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.232	1.16	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.348	1.16	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.580	5.80	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1000 131261 2

Comments:



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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87094	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-9

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	92.1	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	105.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	93.2	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID : SP0RT0804-10
Lab ID : 9809429-10
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.200	1.00	ug/kg	1.0	TCL	09/15/98	2155	131261	1
1,1,1-Trichloroethane	U	ND	0.100	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.600	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.300	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.100	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.300	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.400	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.400	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.200	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.500	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.200	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.200	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene		3.38	0.100	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.100	1.00	ug/kg	1.0					
2-Butanone		6.92	3.20	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.80	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.10	5.00	ug/kg	1.0					
Acetone		57.2	10.3	10.3	ug/kg	1.0					
Acetonitrile	U	ND	1.00	25.0	ug/kg	1.0					
Acrolein	U	ND	4.60	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.90	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.400	5.00	ug/kg	1.0					
Benzene		1.71	0.500	1.00	ug/kg	1.0					
Bromoform	U	ND	0.300	1.00	ug/kg	1.0					
Carbon Disulfide	J	0.810	0.300	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.500	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.300	1.00	ug/kg	1.0					

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.200	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.300	1.00	ug/kg	1.0	TCL	09/15/98	2155	131261	1
Chloroform	U	ND	0.100	1.00	ug/kg	1.0					
Chloroprene	U	ND	10.0	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.200	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.100	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.20	1.20	ug/kg	1.0					
Ethylbenzene	U	ND	0.300	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.30	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.900	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.300	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.200	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.600	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.400	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.40	1.40	ug/kg	1.0					
Propionitrile	U	ND	3.40	10.0	ug/kg	1.0					
Styrene	U	ND	0.300	1.00	ug/kg	1.0					
Tetrachloroethylene		4.67	0.400	1.00	ug/kg	1.0					
Toluene		1.40	0.900	1.00	ug/kg	1.0					
Trichloroethylene		959	33.0	110	ug/kg	110	TCL	09/16/98	1515	131261	1
Trichlorofluoromethane	U	ND	0.300	1.00	ug/kg	1.0	TCL	09/15/98	2155	131261	1
Vinyl Acetate	U	ND	2.10	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.400	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.700	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.09	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.200	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.500	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1005 131261 2

Comments:



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	235	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

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Sample ID : SPORT0804-10

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	95.5	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	112.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	102.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows.

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By



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STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10100	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106
 Contact: Mr. Bill Hiers
 Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

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Sample ID	:	SPORT0804-11
Lab ID	:	9809429-11
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

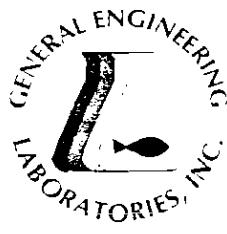
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.194	1.00	ug/kg	1.0	TCL	09/16/98	1148	131261	1
1,1,1-Trichloroethane	U	ND	0.0969	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.581	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.291	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0969	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.291	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.388	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.388	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.194	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.485	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.194	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.194	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0969	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0969	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.10	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.71	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.00	5.00	ug/kg	1.0					
Acetone	U	ND	9.98	9.98	ug/kg	1.0					
Acetonitrile	U	ND	0.969	25.0	ug/kg	1.0					
Acrolein	U	ND	4.46	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.78	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.388	5.00	ug/kg	1.0					
Benzene	U	ND	0.485	1.00	ug/kg	1.0					
Bromoform	U	ND	0.291	1.00	ug/kg	1.0					
Carbon Disulfide	U	ND	0.291	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.485	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.291	1.00	ug/kg	1.0					

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9809429-11



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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

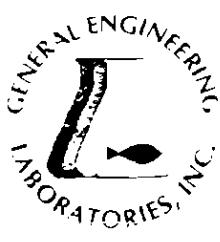
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.194	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.291	1.00	ug/kg	1.0	TCL	09/16/98	1148	131261	1
Chloroform	U	ND	0.0969	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.69	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.194	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0969	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.16	1.16	ug/kg	1.0					
Ethylbenzene	U	ND	0.291	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.10	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.872	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.291	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.194	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.581	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.388	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.36	1.36	ug/kg	1.0					
Propionitrile	U	ND	3.29	10.0	ug/kg	1.0					
Styrene	U	ND	0.291	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.388	1.00	ug/kg	1.0					
Toluene	U	ND	0.872	1.00	ug/kg	1.0					
Trichloroethylene	J	0.572	0.291	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.291	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.03	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.388	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.678	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.93	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.194	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.291	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.485	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1011 131261 2

Comments:



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SP070804-11

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	80.1	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	101.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	85.8	(72.1 - 137.)

M = Method	Method-Description
------------	--------------------

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

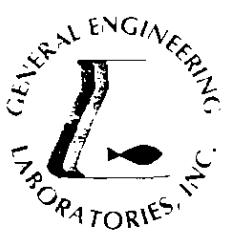
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	01934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID : SPORT0804-12
Lab ID : 9809429-12
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.208	1.04	ug/kg	1.0	TCL	09/15/98	2255	131261	1
1,1,1-Trichloroethane	U	ND	0.104	1.04	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.624	1.04	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.312	1.04	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.104	1.04	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.312	1.04	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.416	1.04	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.416	1.04	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.520	1.04	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.104	1.04	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.104	1.04	ug/kg	1.0					
2-Butanone	U	ND	3.33	5.20	ug/kg	1.0					
2-Hexanone	U	ND	2.91	5.20	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.22	5.20	ug/kg	1.0					
Acetone		17.8	10.7	10.7	ug/kg	1.0					
Acetonitrile	U	ND	1.04	26.0	ug/kg	1.0					
Acrolein	U	ND	4.78	10.4	ug/kg	1.0					
Acrylonitrile	U	ND	4.06	10.4	ug/kg	1.0					
Allyl Chloride	U	ND	0.416	5.20	ug/kg	1.0					
Benzene	U	ND	0.520	1.04	ug/kg	1.0					
Bromoform	U	ND	0.312	1.04	ug/kg	1.0					
Carbon Disulfide	U	ND	0.312	5.20	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.520	1.04	ug/kg	1.0					
Chlorobenzene	U	ND	0.312	1.04	ug/kg	1.0					

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 SUPSHIP-Portsmouth Detachment-Env.
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.208	1.04	ug/kg	1.0					
Chloroethane	U	ND	0.312	1.04	ug/kg	1.0	TCL	09/15/98	2255	131261	1
Chloroform	U	ND	0.104	1.04	ug/kg	1.0					
Chloroprene	U	ND	10.4	20.8	ug/kg	1.0					
Dibromomethane	U	ND	0.208	1.04	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.104	1.04	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.25	1.25	ug/kg	1.0					
Ethylbenzene	U	ND	0.312	1.04	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.55	10.4	ug/kg	1.0					
Methacrylonitrile	U	ND	0.936	5.20	ug/kg	1.0					
Methyl Bromide	U	ND	0.312	1.04	ug/kg	1.0					
Methyl Chloride	U	ND	0.208	1.04	ug/kg	1.0					
Methyl Iodide	U	ND	0.624	5.20	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.416	5.20	ug/kg	1.0					
Methylene Chloride	U	ND	1.46	1.46	ug/kg	1.0					
Propionitrile	U	ND	3.54	10.4	ug/kg	1.0					
Styrene	U	ND	0.312	1.04	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.416	1.04	ug/kg	1.0					
Toluene	U	ND	0.936	1.04	ug/kg	1.0					
Trichloroethylene	J	0.614	0.312	1.04	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.312	1.04	ug/kg	1.0					
Vinyl Acetate	U	ND	2.18	5.20	ug/kg	1.0					
Vinyl chloride	U	ND	0.416	1.04	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.728	2.08	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.29	10.4	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.208	1.04	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.312	1.04	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.520	5.20	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1014 131261 2

Comments:



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TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID		: SPORT0804-12									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	79.7	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	105.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	85.4	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

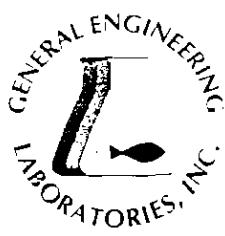
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
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standard operating procedures. Please direct
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Reviewed By

Karen Blakeney



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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

Page 1 of 3

Sample ID	:	SPORT0804-13
Lab ID	:	9809429-13
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

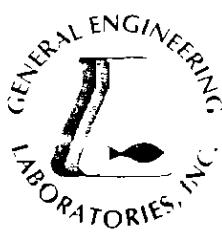
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.192	1.00	ug/kg	1.0	TCL	09/16/98	1220	131261	1
1,1,1-Trichloroethane	U	ND	0.0958	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.575	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.287	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0958	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.287	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.383	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.383	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.192	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.479	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.192	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.192	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0958	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0958	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.07	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.68	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.97	5.00	ug/kg	1.0					
Acetone	U	ND	9.87	9.87	ug/kg	1.0					
Acetonitrile	U	ND	0.958	25.0	ug/kg	1.0					
Acrolein	U	ND	4.41	10.0	ug/kg	1.0					
Aerylonitrile	U	ND	3.74	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.383	5.00	ug/kg	1.0					
Benzene	U	ND	0.479	1.00	ug/kg	1.0					
Bromoform	U	ND	0.287	1.00	ug/kg	1.0					
Carbon Disulfide	U	ND	0.287	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.479	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.287	1.00	ug/kg	1.0					

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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

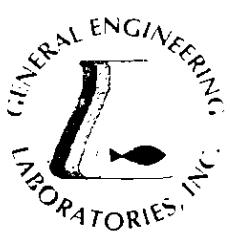
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.192	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.287	1.00	ug/kg	1.0	TCL	09/16/98	1220	131261	1
Chloroform	U	ND	0.0958	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.58	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.192	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0958	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.15	1.15	ug/kg	1.0					
Ethylbenzene	U	ND	0.287	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.04	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.862	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.287	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.192	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.575	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.383	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.34	1.34	ug/kg	1.0					
Propionitrile	U	ND	3.26	10.0	ug/kg	1.0					
Styrene	U	ND	0.287	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.383	1.00	ug/kg	1.0					
Toluene	U	ND	0.862	1.00	ug/kg	1.0					
Trichloroethylene	U	ND	0.287	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.287	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.01	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.383	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.671	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.88	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.192	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.287	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.479	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/Ms Volatiles (8260 High Level)

TCL 09/15/98 1021 131261 2

Comments:



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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-13

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	80.7	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	102.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	85.9	(72.1 - 137.)

M = Method

Method-Description

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

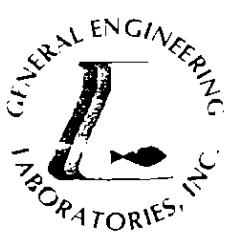
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Reviewed By

Karen Blakeney



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STATE	GEL	EPI
FL	E37156/87294	E37472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

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Sample ID	:	SPORT0804-14
Lab ID	:	9809429-14
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

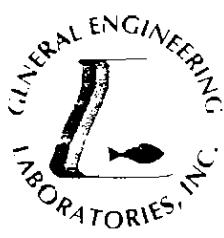
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.218	1.09	ug/kg	1.0	TCL	09/16/98	1254	131261	1
1,1,1-Trichloroethane	U	ND	0.109	1.09	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.654	1.09	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.327	1.09	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.109	1.09	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.327	1.09	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.436	1.09	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.436	1.09	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.218	1.09	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.545	1.09	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.218	1.09	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.218	1.09	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.109	1.09	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.109	1.09	ug/kg	1.0					
2-Butanone	U	ND	3.49	5.45	ug/kg	1.0					
2-Hexanone	U	ND	3.05	5.45	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.38	5.45	ug/kg	1.0					
Acetone		13.8	11.2	11.2	ug/kg	1.0					
Acetonitrile	U	ND	1.09	27.3	ug/kg	1.0					
Acrolein	U	ND	5.01	10.9	ug/kg	1.0					
Acrylonitrile	U	ND	4.25	10.9	ug/kg	1.0					
Allyl Chloride	U	ND	0.436	5.45	ug/kg	1.0					
Benzene	U	ND	0.545	1.09	ug/kg	1.0					
Bromoform	U	ND	0.327	1.09	ug/kg	1.0					
Carbon Disulfide	U	ND	0.327	5.45	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.545	1.09	ug/kg	1.0					
Chlorobenzene	U	ND	0.327	1.09	ug/kg	1.0					

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#9809429-14*



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STATE	GEL	EPI
FL	ES7156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.218	1.09	ug/kg	1.0					
Chloroethane	U	ND	0.327	1.09	ug/kg	1.0	TCL	09/16/98	1254	131261	1
Chloroform	U	ND	0.109	1.09	ug/kg	1.0					
Chloroprene	U	ND	10.9	21.8	ug/kg	1.0					
Dibromomethane	U	ND	0.218	1.09	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.109	1.09	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.31	1.31	ug/kg	1.0					
Ethylbenzene	U	ND	0.327	1.09	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.87	10.9	ug/kg	1.0					
Methacrylonitrile	U	ND	0.981	5.45	ug/kg	1.0					
Methyl Bromide	U	ND	0.327	1.09	ug/kg	1.0					
Methyl Chloride	U	ND	0.218	1.09	ug/kg	1.0					
Methyl Iodide	U	ND	0.654	5.45	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.436	5.45	ug/kg	1.0					
Methylene Chloride	U	ND	1.53	1.53	ug/kg	1.0					
Propionitrile	U	ND	3.71	10.9	ug/kg	1.0					
Styrene	U	ND	0.327	1.09	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.436	1.09	ug/kg	1.0					
Toluene	U	ND	0.981	1.09	ug/kg	1.0					
Trichloroethylene		8.39	0.327	1.09	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.327	1.09	ug/kg	1.0					
Vinyl Acetate	U	ND	2.29	5.45	ug/kg	1.0					
Vinyl chloride	U	ND	0.436	1.09	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.763	2.18	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.55	10.9	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.218	1.09	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.327	1.09	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.545	5.45	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1027 131261 2

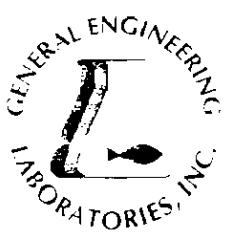
Comments:

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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID		: SPORT0804-14									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											
Surrogate Recovery Test Percent%											
BromoFluorobenzene		APP 9 VOA-8260B	85.5		(53.5 - 154.)						
DibromoFluoromethane		APP 9 VOA-8260B	104.		(63.4 - 136.)						
Toluene-d8		APP 9 VOA-8260B	88.1		(72.1 - 137.)						

M = Method

	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

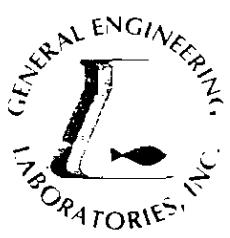
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney



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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID	:	SPORT0804-15
Lab ID	:	9809429-15
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

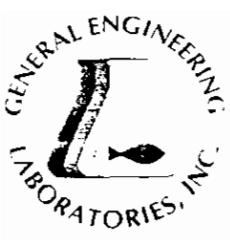
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.189	1.00	ug/kg	1.0	TCL	09/16/98	0025	131261	1
1,1,1-Trichloroethane	U	ND	0.0943	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.566	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.283	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0943	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.283	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.377	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.377	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.189	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.472	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.189	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.189	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0943	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0943	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.02	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.64	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.92	5.00	ug/kg	1.0					
Acetone	U	ND	9.71	9.71	ug/kg	1.0					
Acetonitrile	U	ND	0.943	25.0	ug/kg	1.0					
Acrolein	U	ND	4.34	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.68	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.377	5.00	ug/kg	1.0					
Benzene	U	ND	0.472	1.00	ug/kg	1.0					
Bromoform	U	ND	0.283	1.00	ug/kg	1.0					
Carbon Disulfide	U	ND	0.283	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.472	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.283	1.00	ug/kg	1.0					

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TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Sample ID : SPORT0804-15

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.189	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.283	1.00	ug/kg	1.0	TCL	09/16/98	0025	131261	1
Chloroform	U	ND	0.0943	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.43	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.189	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0943	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.13	1.13	ug/kg	1.0					
Ethylbenzene	U	ND	0.283	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.94	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.849	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.283	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.189	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.566	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.377	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.32	1.32	ug/kg	1.0					
Propionitrile	U	ND	3.21	10.0	ug/kg	1.0					
Styrene	U	ND	0.283	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.377	1.00	ug/kg	1.0					
Toluene	U	ND	0.849	1.00	ug/kg	1.0					
Trichloroethylene	U	ND	0.283	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.283	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	1.98	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.377	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.660	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.80	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.189	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.283	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.472	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

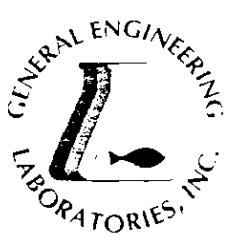
TCL 09/15/98 1030 131261 2

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TN	02934	02934

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-15

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	84.4	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	106.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	88.7	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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SC	10120	10582
TN	02934	02934

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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

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Sample ID : SPORT0804-16
Lab ID : 9809429-16
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.190	1.00	ug/kg	1.0	TCL	09/16/98	0055	131261	1
1,1,1-Trichloroethane	U	ND	0.0949	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.569	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.285	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0949	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.285	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.380	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.380	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.190	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.475	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.190	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.190	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0949	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0949	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.04	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.66	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.94	5.00	ug/kg	1.0					
Acetone		16.3	9.77	9.77	ug/kg	1.0					
Acetonitrile	U	ND	0.949	25.0	ug/kg	1.0					
Acrolein	U	ND	4.37	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.70	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.380	5.00	ug/kg	1.0					
Benzene	J	0.512	0.475	1.00	ug/kg	1.0					
Bromoform	U	ND	0.285	1.00	ug/kg	1.0					
Carbon Disulfide	U	ND	0.285	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.475	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.285	1.00	ug/kg	1.0					

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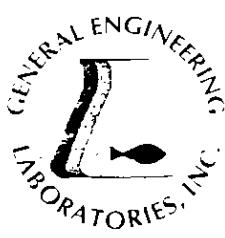
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TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

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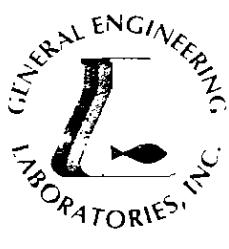
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.190	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.285	1.00	ug/kg	1.0	TCL	09/16/98	0055	131261	1
Chloroform	U	ND	0.0949	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.49	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.190	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0949	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.14	1.14	ug/kg	1.0					
Ethylbenzene	U	ND	0.285	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.98	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.854	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.285	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.190	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.569	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.380	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.33	1.33	ug/kg	1.0					
Propionitrile	U	ND	3.23	10.0	ug/kg	1.0					
Styrene	U	ND	0.285	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.380	1.00	ug/kg	1.0					
Toluene	J	0.864	0.854	1.00	ug/kg	1.0					
Trichloroethylene		1.72	0.285	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.285	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	1.99	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.380	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.664	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.83	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.190	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.285	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.475	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1034 131261 2

Comments:



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NC	233	
SC	10120	10582
TN	02934	02934

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-16

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	81.4	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	112.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	88.9	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

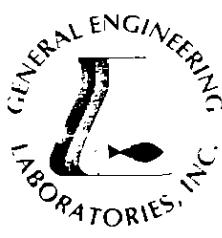
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* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karen Blakeney



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NC	233	
SC	10120	10582
TN	02934	02934

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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID	:	SPORT0804-17
Lab ID	:	9809429-17
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.232	1.16	ug/kg	1.0	TCL	09/16/98	1328	131261	1
1,1,1-Trichloroethane	U	ND	0.116	1.16	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.696	1.16	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.348	1.16	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.116	1.16	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.348	1.16	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.464	1.16	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.464	1.16	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.232	1.16	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.580	1.16	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.232	1.16	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.232	1.16	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.116	1.16	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.116	1.16	ug/kg	1.0					
2-Butanone		5.96	3.71	5.80	ug/kg	1.0					
2-Hexanone	U	ND	3.25	5.80	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.60	5.80	ug/kg	1.0					
Acetone		101	11.9	11.9	ug/kg	1.0					
Acetonitrile	U	ND	1.16	29.0	ug/kg	1.0					
Acrolein	U	ND	5.34	11.6	ug/kg	1.0					
Acrylonitrile	U	ND	4.52	11.6	ug/kg	1.0					
Allyl Chloride	U	ND	0.464	5.80	ug/kg	1.0					
Benzene	U	ND	0.580	1.16	ug/kg	1.0					
Bromoform	U	ND	0.348	1.16	ug/kg	1.0					
Carbon Disulfide	J	1.19	0.348	5.80	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.580	1.16	ug/kg	1.0					
Chlorobenzene	U	ND	0.348	1.16	ug/kg	1.0					

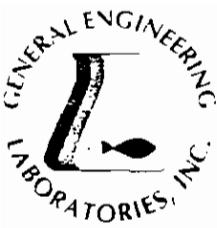
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STATE	GEL	EPI
FL	E87156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Sample ID : SPORT0804-17

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodioromomethane	U	ND	0.232	1.16	ug/kg	1.0					
Chloroethane	U	ND	0.348	1.16	ug/kg	1.0	TCL	09/16/98	1328	131261	1
Chloroform	U	ND	0.116	1.16	ug/kg	1.0					
Chloroprene	U	ND	11.6	23.2	ug/kg	1.0					
Dibromomethane	U	ND	0.232	1.16	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.116	1.16	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.39	1.39	ug/kg	1.0					
Ethylbenzene	U	ND	0.348	1.16	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.31	11.6	ug/kg	1.0					
Methacrylonitrile	U	ND	1.04	5.80	ug/kg	1.0					
Methyl Bromide	U	ND	0.348	1.16	ug/kg	1.0					
Methyl Chloride	U	ND	0.232	1.16	ug/kg	1.0					
Methyl Iodide	U	ND	0.696	5.80	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.464	5.80	ug/kg	1.0					
Methylene Chloride	U	ND	1.62	1.62	ug/kg	1.0					
Propionitrile	U	ND	3.94	11.6	ug/kg	1.0					
Styrene	U	ND	0.348	1.16	ug/kg	1.0					
Tetrachloroethylene		14.8	0.464	1.16	ug/kg	1.0					
Toluene	U	ND	1.04	1.16	ug/kg	1.0					
Trichloroethylene		161	33.8	113	ug/kg	97.	TCL	09/16/98	1551	131261	1
Trichlorofluoromethane	U	ND	0.348	1.16	ug/kg	1.0	TCL	09/16/98	1328	131261	1
Vinyl Acetate	U	ND	2.44	5.80	ug/kg	1.0					
Vinyl chloride	U	ND	0.464	1.16	ug/kg	1.0					
Xylenes (TOTAL)	J	1.40	0.812	2.32	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.90	11.6	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.232	1.16	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.348	1.16	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.580	5.80	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1042 131261 2

Comments:



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FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-17

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	98.7	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	105.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	99.1	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

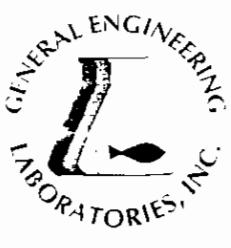
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By





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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID : SPORT0804-18
Lab ID : 9809429-18
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.187	1.00	ug/kg	1.0	TCL	09/16/98	1828	131349	1
1,1,1-Trichloroethane	U	ND	0.0936	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.562	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.281	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0936	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.281	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.374	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.374	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.187	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.468	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.187	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.187	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0936	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0936	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.00	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.62	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.90	5.00	ug/kg	1.0					
Acetone		18.7	9.64	9.64	ug/kg	1.0					
Acetonitrile	U	ND	0.936	25.0	ug/kg	1.0					
Acrolein	U	ND	4.31	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.65	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.374	5.00	ug/kg	1.0					
Benzene		1.07	0.468	1.00	ug/kg	1.0					
Bromoform	U	ND	0.281	1.00	ug/kg	1.0					
Carbon Disulfide	U	ND	0.281	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.468	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.281	1.00	ug/kg	1.0					

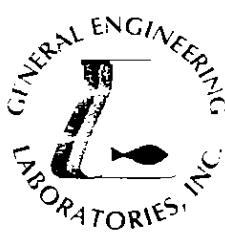
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Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

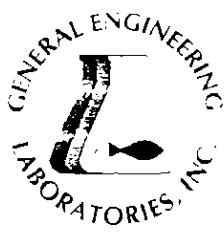
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.187	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.281	1.00	ug/kg	1.0	TCL	09/16/98	1828	131349	1
Chloroform	J	0.796	0.0936	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.36	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.187	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0936	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.12	1.12	ug/kg	1.0					
Ethylbenzene	U	ND	0.281	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.90	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.842	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.281	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.187	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.562	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.374	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.31	1.31	ug/kg	1.0					
Propionitrile	U	ND	3.18	10.0	ug/kg	1.0					
Styrene	U	ND	0.281	1.00	ug/kg	1.0					
Tetrachloroethylene		83.0	0.374	1.00	ug/kg	1.0					
Toluene	U	ND	0.842	1.00	ug/kg	1.0					
Trichloroethylene		9220	31.7	106	ug/kg	1.0	TCL	09/17/98	1526	131349	1
Trichlorofluoromethane	U	ND	0.281	1.00	ug/kg	1.0	TCL	09/16/98	1828	131349	1
Vinyl Acetate	U	ND	1.97	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.374	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	1.53	0.655	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.76	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.187	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.281	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.468	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1045 131349 2

Comments:



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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-18

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	102.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	110.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	117.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

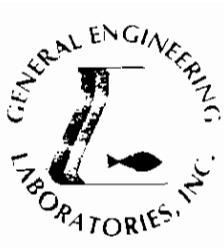
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By



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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID	:	SPORT0804-19
Lab ID	:	9809429-19
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.224	1.12	ug/kg	1.0	TCL	09/16/98	1900	131349	1
1,1,1-Trichloroethane	U	ND	0.112	1.12	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.672	1.12	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.336	1.12	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.112	1.12	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.336	1.12	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.448	1.12	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.448	1.12	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.224	1.12	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.560	1.12	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.224	1.12	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.224	1.12	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.112	1.12	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.112	1.12	ug/kg	1.0					
2-Butanone	J	4.28	3.58	5.60	ug/kg	1.0					
2-Hexanone	U	ND	3.14	5.60	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.47	5.60	ug/kg	1.0					
Acetone		53.9	11.5	11.5	ug/kg	1.0					
Acetonitrile	U	ND	1.12	28.0	ug/kg	1.0					
Acrolein	U	ND	5.15	11.2	ug/kg	1.0					
Acrylonitrile	U	ND	4.37	11.2	ug/kg	1.0					
Allyl Chloride	U	ND	0.448	5.60	ug/kg	1.0					
Benzene		2.48	0.560	1.12	ug/kg	1.0					
Bromoform	U	ND	0.336	1.12	ug/kg	1.0					
Carbon Disulfide	J	2.53	0.336	5.60	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.560	1.12	ug/kg	1.0					
Chlorobenzene	U	ND	0.336	1.12	ug/kg	1.0					

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FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

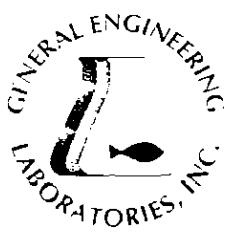
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.224	1.12	ug/kg	1.0					
Chloroethane	U	ND	0.336	1.12	ug/kg	1.0	TCL	09/16/98	1900	131349	1
Chloroform	U	ND	0.112	1.12	ug/kg	1.0					
Chloroprene	U	ND	11.2	22.4	ug/kg	1.0					
Dibromomethane	U	ND	0.224	1.12	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.112	1.12	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.34	1.34	ug/kg	1.0					
Ethylbenzene	J	0.571	0.336	1.12	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.06	11.2	ug/kg	1.0					
Methacrylonitrile	U	ND	1.01	5.60	ug/kg	1.0					
Methyl Bromide	U	ND	0.336	1.12	ug/kg	1.0					
Methyl Chloride	U	ND	0.224	1.12	ug/kg	1.0					
Methyl Iodide	U	ND	0.672	5.60	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.448	5.60	ug/kg	1.0					
Methylene Chloride	U	ND	1.57	1.57	ug/kg	1.0					
Propionitrile	U	ND	3.81	11.2	ug/kg	1.0					
Styrene	U	ND	0.336	1.12	ug/kg	1.0					
Tetrachloroethylene		1.71	0.448	1.12	ug/kg	1.0					
Toluene		2.71	1.01	1.12	ug/kg	1.0					
Trichloroethylene		94.6	0.336	1.12	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.336	1.12	ug/kg	1.0					
Vinyl Acetate	U	ND	2.35	5.60	ug/kg	1.0					
Vinyl chloride	U	ND	0.448	1.12	ug/kg	1.0					
Xylenes (TOTAL)	J	1.95	0.784	2.24	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.70	11.2	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.224	1.12	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.336	1.12	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.560	5.60	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1049 131349 2

Comments:



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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-19

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	110.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	105.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	111.	(72.1 - 137.)

M = Method

Method-Description

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

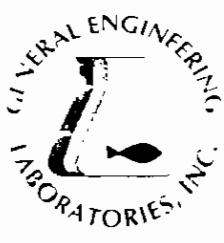
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney



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STATE	GEL	EPI
FL	E87156/87294	E87472/8741
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID	: SPORT0804-20
Lab ID	: 9809429-20
Matrix	: Soil
Date Collected	: 09/14/98
Date Received	: 09/14/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.266	1.33	ug/kg	1.0	TCL	09/16/98	1931	131349	1
1,1,1-Trichloroethane	U	ND	0.133	1.33	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.798	1.33	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.399	1.33	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.133	1.33	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.399	1.33	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.532	1.33	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.532	1.33	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.266	1.33	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.665	1.33	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.266	1.33	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.266	1.33	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.133	1.33	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.133	1.33	ug/kg	1.0					
2-Butanone	U	ND	4.26	6.65	ug/kg	1.0					
2-Hexanone	U	ND	3.72	6.65	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	4.12	6.65	ug/kg	1.0					
Acetone		57.7	13.7	13.7	ug/kg	1.0					
Acetonitrile	U	ND	1.33	33.3	ug/kg	1.0					
Acrolein	U	ND	6.12	13.3	ug/kg	1.0					
Acrylonitrile	U	ND	5.19	13.3	ug/kg	1.0					
Allyl Chloride	U	ND	0.532	6.65	ug/kg	1.0					
Benzene		1.77	0.665	1.33	ug/kg	1.0					
Bromoform	U	ND	0.399	1.33	ug/kg	1.0					
Carbon Disulfide	J	1.04	0.399	6.65	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.665	1.33	ug/kg	1.0					
Chlorobenzene	U	ND	0.399	1.33	ug/kg	1.0					

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SUPSHIP-Portsmouth Detachment-Env.
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

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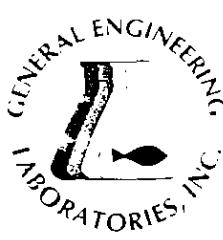
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.266	1.33	ug/kg	1.0					
Chloroethane	U	ND	0.399	1.33	ug/kg	1.0	TCL	09/16/98	1931	131349	1
Chloroform	U	ND	0.133	1.33	ug/kg	1.0					
Chloroprene	U	ND	13.3	26.6	ug/kg	1.0					
Dibromomethane	U	ND	0.266	1.33	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.133	1.33	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.60	1.60	ug/kg	1.0					
Ethylbenzene	U	ND	0.399	1.33	ug/kg	1.0					
Isobutyl Alcohol	U	ND	8.38	13.3	ug/kg	1.0					
Methacrylonitrile	U	ND	1.20	6.65	ug/kg	1.0					
Methyl Bromide	U	ND	0.399	1.33	ug/kg	1.0					
Methyl Chloride	U	ND	0.266	1.33	ug/kg	1.0					
Methyl Iodide	U	ND	0.798	6.65	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.532	6.65	ug/kg	1.0					
Methylene Chloride	U	ND	1.86	1.86	ug/kg	1.0					
Propionitrile	U	ND	4.52	13.3	ug/kg	1.0					
Styrene	U	ND	0.399	1.33	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.532	1.33	ug/kg	1.0					
Toluene		2.69		1.20	ug/kg	1.0					
Trichloroethylene		67.7		0.399	1.33	ug/kg	1.0				
Trichlorofluoromethane	U	ND	0.399	1.33	ug/kg	1.0					
Vinyl Acetate	U	ND	2.79	6.65	ug/kg	1.0					
Vinyl chloride	U	ND	0.532	1.33	ug/kg	1.0					
Xylenes (TOTAL)	J	1.20	0.931	2.66	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	6.77	13.3	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.266	1.33	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.399	1.33	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.665	6.65	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1054 131349 2

Comments:



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TN	02934	02934

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-20

Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	102.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	107.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	115.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakney

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID : SPORT0804-21
Lab ID : 9809429-21
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.278	1.39	ug/kg	1.0	TCL	09/16/98	2002	131549	1
1,1,1-Trichloroethane	U	ND	0.139	1.39	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.834	1.39	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.417	1.39	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.139	1.39	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.417	1.39	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.556	1.39	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.556	1.39	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.278	1.39	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.695	1.39	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.278	1.39	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.278	1.39	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.139	1.39	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.139	1.39	ug/kg	1.0					
2-Butanone	U	ND	4.45	6.95	ug/kg	1.0					
2-Hexanone	U	ND	3.89	6.95	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	4.31	6.95	ug/kg	1.0					
Acetone		34.8	14.3	14.3	ug/kg	1.0					
Acetonitrile	U	ND	1.39	34.8	ug/kg	1.0					
Acrolein	U	ND	6.39	13.9	ug/kg	1.0					
Acrylonitrile	U	ND	5.42	13.9	ug/kg	1.0					
Allyl Chloride	U	ND	0.556	6.95	ug/kg	1.0					
Benzene	J	1.25	0.695	1.39	ug/kg	1.0					
Bromoform	U	ND	0.417	1.39	ug/kg	1.0					
Carbon Disulfide	J	0.890	0.417	6.95	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.695	1.39	ug/kg	1.0					
Chlorobenzene	U	ND	0.417	1.39	ug/kg	1.0					

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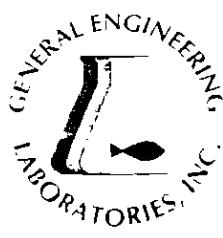
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TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.278	1.39	ug/kg	1.0					
Chloroethane	U	ND	0.417	1.39	ug/kg	1.0	TCL	09/16/98	2002	131349	1
Chloroform	U	ND	0.139	1.39	ug/kg	1.0					
Chloroprene	U	ND	13.9	27.8	ug/kg	1.0					
Dibromomethane	U	ND	0.278	1.39	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.139	1.39	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.67	1.67	ug/kg	1.0					
Ethylbenzene	U	ND	0.417	1.39	ug/kg	1.0					
Isobutyl Alcohol	U	ND	8.76	13.9	ug/kg	1.0					
Methacrylonitrile	U	ND	1.25	6.95	ug/kg	1.0					
Methyl Bromide	U	ND	0.417	1.39	ug/kg	1.0					
Methyl Chloride	U	ND	0.278	1.39	ug/kg	1.0					
Methyl Iodide	U	ND	0.834	6.95	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.536	6.95	ug/kg	1.0					
Methylene Chloride		2.71		1.95	ug/kg	1.0					
Propionitrile	U	ND	4.73	13.9	ug/kg	1.0					
Styrene	U	ND	0.417	1.39	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.556	1.39	ug/kg	1.0					
Toluene		1.54		1.25	ug/kg	1.0					
Trichloroethylene		52.1		0.417	1.39	ug/kg	1.0				
Trichlorofluoromethane	U	ND	0.417	1.39	ug/kg	1.0					
Vinyl Acetate	U	ND	2.92	6.95	ug/kg	1.0					
Vinyl chloride	U	ND	0.556	1.39	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.973	2.78	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	7.08	13.9	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.278	1.39	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.417	1.39	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.695	6.95	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

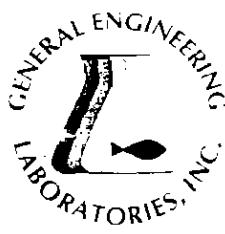
TCL 09/15/98 1100 131349 2

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TN	02934	02934

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Page 3 of 3

Sample ID : SPORT0804-21

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	111.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	106.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	110.	(72.1 - 137.)

M = Method	Method-Description
------------	--------------------

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

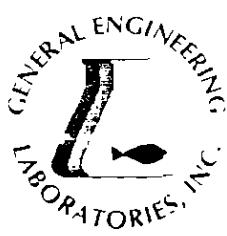
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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TN	02934	02934

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Contact: Mr. Bill Hiers

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Sample ID	:	SPORT0804-22
Lab ID	:	9809429-22
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.240	1.20	ug/kg	1.0	TCL	09/16/98	2033	131349	1
1,1,1-Trichloroethane	U	ND	0.120	1.20	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.720	1.20	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.360	1.20	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.120	1.20	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.360	1.20	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.480	1.20	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.480	1.20	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.240	1.20	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.600	1.20	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.240	1.20	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.240	1.20	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.120	1.20	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.120	1.20	ug/kg	1.0					
2-Butanone	J	5.59	3.84	6.00	ug/kg	1.0					
2-Hexanone	U	ND	3.36	6.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.72	6.00	ug/kg	1.0					
Acetone		73.5	12.4	12.4	ug/kg	1.0					
Acetonitrile	U	ND	1.20	30.0	ug/kg	1.0					
Acrolein	U	ND	5.52	12.0	ug/kg	1.0					
Acrylonitrile	U	ND	4.68	12.0	ug/kg	1.0					
Ailyl Chloride	U	ND	0.480	6.00	ug/kg	1.0					
Benzene		1.68	0.600	1.20	ug/kg	1.0					
Bromoform	U	ND	0.360	1.20	ug/kg	1.0					
Carbon Disulfide	J	1.14	0.360	6.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.600	1.20	ug/kg	1.0					
Chlorobenzene	U	ND	0.360	1.20	ug/kg	1.0					

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SC	10120	10582
TN	02934	02934

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	
Chlorodibromomethane	U	ND	0.240	1.20	ug/kg	1.0						
Chloroethane	U	ND	0.360	1.20	ug/kg	1.0	TCL	09/16/98	2033	131349	1	
Chloroform	U	ND	0.120	1.20	ug/kg	1.0						
Chloroprene	U	ND	12.0	24.0	ug/kg	1.0						
Dibromomethane	U	ND	0.240	1.20	ug/kg	1.0						
Dichlorobromomethane	U	ND	0.120	1.20	ug/kg	1.0						
Dichlorodifluoromethane	U	ND	1.44	1.44	ug/kg	1.0						
Ethylbenzene	U	ND	0.360	1.20	ug/kg	1.0						
Isobutyl Alcohol	U	ND	7.56	12.0	ug/kg	1.0						
Methacrylonitrile	U	ND	1.08	6.00	ug/kg	1.0						
Methyl Bromide	U	ND	0.360	1.20	ug/kg	1.0						
Methyl Chloride	U	ND	0.240	1.20	ug/kg	1.0						
Methyl Iodide	U	ND	0.720	6.00	ug/kg	1.0						
Methyl Methacrylate	U	ND	0.480	6.00	ug/kg	1.0						
Methylene Chloride		4.40		1.68	ug/kg	1.0						
Propionitrile	U	ND	4.08	12.0	ug/kg	1.0						
Styrene	U	ND	0.360	1.20	ug/kg	1.0						
Tetrachloroethylene		6.85		0.480	1.20	ug/kg	1.0					
Toluene		1.96		1.08	ug/kg	1.0						
Trichloroethylene		248		37.8	126	ug/kg	11.0	TCL	09/17/98	1635	131349	1
Trichlorofluoromethane	U	ND	0.360	1.20	ug/kg	1.0	TCL	09/16/98	2033	131349	1	
Vinyl Acetate	U	ND	2.52	6.00	ug/kg	1.0						
Vinyl chloride	U	ND	0.480	1.20	ug/kg	1.0						
Xylenes (TOTAL)	J	2.22		0.840	2.40	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	6.11	12.0	ug/kg	1.0						
cis-1,3-Dichloropropylene	U	ND	0.240	1.20	ug/kg	1.0						
trans-1,3-Dichloropropylene	U	ND	0.360	1.20	ug/kg	1.0						
trans-1,4-Dichloro-2-butene	U	ND	0.600	6.00	ug/kg	1.0						

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1105 131349 2

Comments:



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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
SC	10120	10582
TN	02964	0293+

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Description: SUPSHIP-Portsmouth Detachment

cc-NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID		SPORT0804-22									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	92.0	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	104.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	102.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

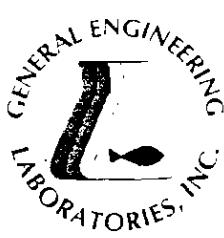
L indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

Page 1 of 3

Sample ID	:	SPORT0804-23
Lab ID	:	9809429-23
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.208	1.04	ug/kg	1.0	TCL	09/16/98	2104	131349	1
1,1,1-Trichloroethane	U	ND	0.104	1.04	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.624	1.04	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.312	1.04	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.104	1.04	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.312	1.04	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.416	1.04	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.416	1.04	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.520	1.04	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.104	1.04	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.104	1.04	ug/kg	1.0					
2-Butanone	U	ND	3.33	5.20	ug/kg	1.0					
2-Hexanone	U	ND	2.91	5.20	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.22	5.20	ug/kg	1.0					
Acetone		16.9	10.7	10.7	ug/kg	1.0					
Acetonitrile	U	ND	1.04	26.0	ug/kg	1.0					
Acrolein	U	ND	4.78	10.4	ug/kg	1.0					
Acrylonitrile	U	ND	4.06	10.4	ug/kg	1.0					
Allyl Chloride	U	ND	0.416	5.20	ug/kg	1.0					
Benzene	U	ND	0.520	1.04	ug/kg	1.0					
Bromoform	U	ND	0.312	1.04	ug/kg	1.0					
Carbon Disulfide	U	ND	0.312	5.20	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.520	1.04	ug/kg	1.0					
Chlorobenzene	U	ND	0.312	1.04	ug/kg	1.0					

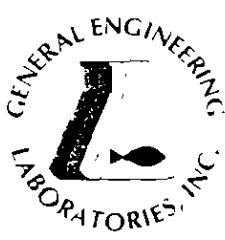
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FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

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 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Sample ID : SPORT0804-23

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.208	1.04	ug/kg	1.0					
Chloroethane	U	ND	0.312	1.04	ug/kg	1.0	TCL	09/16/98	2104	131349	1
Chloroform	U	ND	0.104	1.04	ug/kg	1.0					
Chloroprene	U	ND	10.4	20.8	ug/kg	1.0					
Dibromomethane	U	ND	0.208	1.04	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.104	1.04	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.25	1.25	ug/kg	1.0					
Ethylbenzene	U	ND	0.312	1.04	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.55	10.4	ug/kg	1.0					
Methacrylonitrile	U	ND	0.936	5.20	ug/kg	1.0					
Methyl Bromide	U	ND	0.312	1.04	ug/kg	1.0					
Methyl Chloride	U	ND	0.208	1.04	ug/kg	1.0					
Methyl Iodide	U	ND	0.624	5.20	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.416	5.20	ug/kg	1.0					
Methylene Chloride	U	ND	1.46	1.46	ug/kg	1.0					
Propionitrile	U	ND	3.54	10.4	ug/kg	1.0					
Styrene	U	ND	0.312	1.04	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.416	1.04	ug/kg	1.0					
Toluene	U	ND	0.936	1.04	ug/kg	1.0					
Trichloroethylene		23.6	0.312	1.04	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.312	1.04	ug/kg	1.0					
Vinyl Acetate	U	ND	2.18	5.20	ug/kg	1.0					
Vinyl chloride	U	ND	0.416	1.04	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.728	2.08	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.29	10.4	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.208	1.04	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.312	1.04	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.520	5.20	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1110 131349 2

Comments:



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STATE	GEL	EPI
FL	ES7156/87294	ES7472/87-
NC	233	
SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-23

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	85.0	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	97.4	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	86.9	(72.1 - 137.)

M = Method	Method-Description
------------	--------------------

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

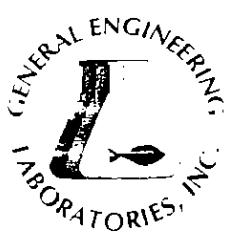
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
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FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: September 23, 1998

Page 1 of 3

Sample ID : SPORT0804-24
Lab ID : 9809429-24
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.218	1.09	ug/kg	1.0	TCL	09/16/98	2135	131349	1
1,1,1-Trichloroethane	U	ND	0.109	1.09	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.654	1.09	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.327	1.09	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.109	1.09	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.327	1.09	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.436	1.09	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.436	1.09	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.218	1.09	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.545	1.09	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.218	1.09	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.218	1.09	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.109	1.09	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.109	1.09	ug/kg	1.0					
2-Butanone	U	ND	3.49	5.45	ug/kg	1.0					
2-Hexanone	U	ND	3.05	5.45	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.38	5.45	ug/kg	1.0					
Acetone		14.3	11.2	11.2	ug/kg	1.0					
Acetonitrile	U	ND	1.09	27.3	ug/kg	1.0					
Acrolein	U	ND	5.01	10.9	ug/kg	1.0					
Acrylonitrile	U	ND	4.25	10.9	ug/kg	1.0					
Allyl Chloride	U	ND	0.436	5.45	ug/kg	1.0					
Benzene	U	ND	0.545	1.09	ug/kg	1.0					
Bromoform	U	ND	0.327	1.09	ug/kg	1.0					
Carbon Disulfide	U	ND	0.327	5.45	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.545	1.09	ug/kg	1.0					
Chlorobenzene	U	ND	0.327	1.09	ug/kg	1.0					

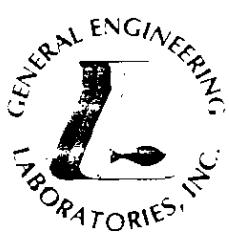
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STATE	GEL	EPI
FL	E97156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

Sample ID : SPORT0804-24

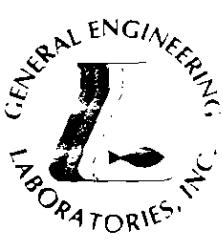
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.218	1.09	ug/kg	1.0					
Chloroethane	U	ND	0.327	1.09	ug/kg	1.0	TCL	09/16/98	2135	131349	1
Chloroform	U	ND	0.109	1.09	ug/kg	1.0					
Chloroprene	U	ND	10.9	21.8	ug/kg	1.0					
Dibromomethane	U	ND	0.218	1.09	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.109	1.09	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.31	1.31	ug/kg	1.0					
Ethylbenzene	U	ND	0.327	1.09	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.87	10.9	ug/kg	1.0					
Methacrylonitrile	U	ND	0.981	5.45	ug/kg	1.0					
Methyl Bromide	U	ND	0.327	1.09	ug/kg	1.0					
Methyl Chloride	U	ND	0.218	1.09	ug/kg	1.0					
Methyl Iodide	U	ND	0.654	5.45	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.436	5.45	ug/kg	1.0					
Methylene Chloride	U	ND	1.53	1.53	ug/kg	1.0					
Propionitrile	U	ND	3.71	10.9	ug/kg	1.0					
Styrene	U	ND	0.327	1.09	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.436	1.09	ug/kg	1.0					
Toluene	U	ND	0.981	1.09	ug/kg	1.0					
Trichloroethylene		2.38	0.327	1.09	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.327	1.09	ug/kg	1.0					
Vinyl Acetate	U	ND	2.29	5.45	ug/kg	1.0					
Vinyl chloride	U	ND	0.436	1.09	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.763	2.18	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.55	10.9	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.218	1.09	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.327	1.09	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.545	5.45	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1115 131349 2

Comments:



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Laboratory Certifications		
STATE	GEL	EPI
FL	E37156/87294	E87472/87-
NC	233	
SC	10150	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-24

Data reported in mass/mass units is reported 'as received'.

[View Details](#)

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	86.9	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	99.9	(63.1 - 136.)
Toluene-d8	APP 9 VOA-8260B	89.1	(72.1 - 137.)

M 1 EPA 8260B
M 2 EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

▪ indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
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standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Page 1 of 3

Sample ID : SPORT0804-25
Lab ID : 9809429-25
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.240	1.20	ug/kg	1.0	TCL	09/16/98	2206	131349	1
1,1,1-Trichloroethane	U	ND	0.120	1.20	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.720	1.20	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.360	1.20	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.120	1.20	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.360	1.20	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.480	1.20	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.480	1.20	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.240	1.20	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.600	1.20	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.240	1.20	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.240	1.20	ug/kg	1.0					
1,2-cis-Dichloroethylene		11.7	0.120	1.20	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.120	1.20	ug/kg	1.0					
2-Butanone	J	3.95	3.84	6.00	ug/kg	1.0					
2-Hexanone	U	ND	3.36	6.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.72	6.00	ug/kg	1.0					
Acetone		44.9	12.4	12.4	ug/kg	1.0					
Acetonitrile	U	ND	1.20	30.0	ug/kg	1.0					
Acrolein	U	ND	5.52	12.0	ug/kg	1.0					
Acrylonitrile	U	ND	4.68	12.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.480	6.00	ug/kg	1.0					
Benzene		4.74	0.600	1.20	ug/kg	1.0					
Bromoform	U	ND	0.360	1.20	ug/kg	1.0					
Carbon Disulfide	J	2.21	0.360	6.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.600	1.20	ug/kg	1.0					
Chlorobenzene	U	ND	0.360	1.20	ug/kg	1.0					

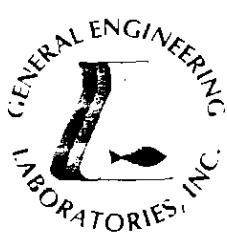
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

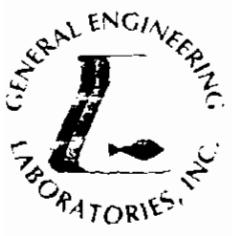
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.240	1.20	ug/kg	1.0					
Chloroethane	U	ND	0.360	1.20	ug/kg	1.0	TCL	09/16/98	2206	131349	1
Chloroform		1.22	0.120	1.20	ug/kg	1.0					
Chloroprene	U	ND	12.0	24.0	ug/kg	1.0					
Dibromomethane	U	ND	0.240	1.20	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.120	1.20	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.44	1.44	ug/kg	1.0					
Ethylbenzene	J	0.696	0.360	1.20	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.56	12.0	ug/kg	1.0					
Methacrylonitrile	U	ND	1.08	6.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.360	1.20	ug/kg	1.0					
Methyl Chloride	U	ND	0.240	1.20	ug/kg	1.0					
Methyl Iodide	U	ND	0.720	6.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.480	6.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.68	1.68	ug/kg	1.0					
Propionitrile	U	ND	4.08	12.0	ug/kg	1.0					
Styrene	U	ND	0.360	1.20	ug/kg	1.0					
Tetrachloroethylene		50.5	0.480	1.20	ug/kg	1.0					
Toluene		3.07	1.08	1.20	ug/kg	1.0					
Trichloroethylene		3520	36.4	121	ug/kg	100	TCL	09/21/98	1115	131349	1
Trichlorofluoromethane	U	ND	0.360	1.20	ug/kg	1.0	TCL	09/16/98	2206	131349	1
Vinyl Acetate	U	ND	2.52	6.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.480	1.20	ug/kg	1.0					
Xylenes (TOTAL)		3.02	0.840	2.40	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	6.11	12.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.240	1.20	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.360	1.20	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.600	6.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1123 131349 2

Comments:



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STATE	GEL	EPI
FL	E87156/87294	E8747287
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-25

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	97.3	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	107.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	108.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

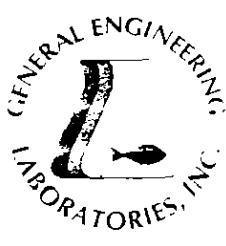
U indicates that the analytic was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID : SPORT0804-26
Lab ID : 9809429-26
Matrix : Soil
Date Collected : 09/14/98
Date Received : 09/14/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.200	1.00	ug/kg	1.0	TCL	09/16/98	2236	131349	1
1,1,1-Trichloroethane	U	ND	0.100	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.600	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.300	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.100	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.300	1.00	ug/kg	1.0					
1,1,3-Trichloropropane	U	ND	0.400	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.400	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.200	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.500	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.200	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.200	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.100	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.100	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.20	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.80	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.10	5.00	ug/kg	1.0					
Acetone	U	ND	10.3	10.3	ug/kg	1.0					
Acetonitrile	U	ND	1.00	25.0	ug/kg	1.0					
Acrolein	U	ND	4.60	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.90	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.400	5.00	ug/kg	1.0					
Benzene	U	ND	0.500	1.00	ug/kg	1.0					
Bromoform	U	ND	0.300	1.00	ug/kg	1.0					
Carbon Disulfide	U	ND	0.300	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.500	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.300	1.00	ug/kg	1.0					

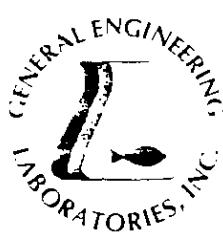
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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

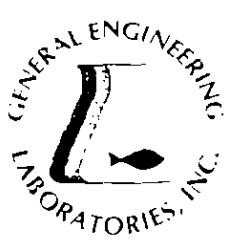
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.200	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.300	1.00	ug/kg	1.0	TCL	09/16/98	2236	131349	1
Chloroform	U	ND	0.100	1.00	ug/kg	1.0					
Chloroprene	U	ND	10.0	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.200	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.100	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.20	1.20	ug/kg	1.0					
Ethylbenzene	U	ND	0.300	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.30	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.900	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.300	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.200	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.600	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.400	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.40	1.40	ug/kg	1.0					
Propionitrile	U	ND	3.40	10.0	ug/kg	1.0					
Styrene	U	ND	0.300	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.400	1.00	ug/kg	1.0					
Toluene	U	ND	0.900	1.00	ug/kg	1.0					
Trichloroethylene		5.53	0.300	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.300	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.10	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.400	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.700	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.09	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.200	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.500	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 1130 131349 2

Comments:



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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-26

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
BromoFluorobenzene	APP 9 VOA-8260B	83.9	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	99.9	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	86.3	(72.1 - 137.)

M = Method	Method-Description
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M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

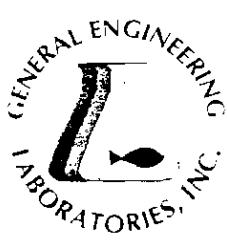
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

Karen Blakeney



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 1 of 3

Sample ID	:	SPORT0804-27
Lab ID	:	9809429-27
Matrix	:	Soil
Date Collected	:	09/14/98
Date Received	:	09/14/98
Priority	:	Routine
Collector	:	Client

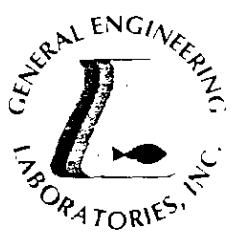
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.190	1.00	ug/kg	1.0	TCL	09/16/98	2307	131349	1
1,1,1-Trichloroethane	U	ND	0.0951	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.571	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.285	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0951	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.285	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.380	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.380	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.190	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.476	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.190	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.190	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0951	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0951	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.04	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.66	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.95	5.00	ug/kg	1.0					
Acetone	U	ND	9.80	9.80	ug/kg	1.0					
Acetonitrile	U	ND	0.951	25.0	ug/kg	1.0					
Acrolein	U	ND	4.37	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.71	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.380	5.00	ug/kg	1.0					
Benzene	U	ND	0.476	1.00	ug/kg	1.0					
Bromoform	U	ND	0.285	1.00	ug/kg	1.0					
Carbon Disulfide	U	ND	0.285	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.476	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.285	1.00	ug/kg	1.0					

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STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 2 of 3

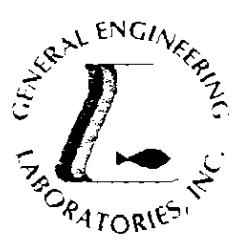
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.190	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.285	1.00	ug/kg	1.0	TCL	09/16/98	2307	131349	1
Chloroform	U	ND	0.0951	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.51	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.190	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0951	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.14	1.14	ug/kg	1.0					
Ethylbenzene	U	ND	0.285	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.99	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.856	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.285	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.190	1.00	ug/kg	1.0					
Methyl Iodide	U	ND	0.571	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.380	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.33	1.33	ug/kg	1.0					
Propionitrile	U	ND	3.23	10.0	ug/kg	1.0					
Styrene	U	ND	0.285	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.380	1.00	ug/kg	1.0					
Toluene	U	ND	0.856	1.00	ug/kg	1.0					
Trichloroethylene	J	0.875	0.285	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.285	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.00	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.380	1.00	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.666	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.84	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.190	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.285	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.476	5.00	ug/kg	1.0					

The following prep procedures were performed:

GC/MS Volatiles (8260 High Level)

TCL 09/15/98 0900 131349 2

Comments:



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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: September 23, 1998

Page 3 of 3

Sample ID : SPORT0804-27

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	81.8	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	102.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	85.9	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakeney
Reviewed By

QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9809429%

Report Date: September 23, 1998

Page 1 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Volatile Organics													
QC542350		BLANK	131261										
1,1-Dichloroethylene						0.00	ug/kg					TCL	09/15/98 1642
Benzene						0.00	ug/kg						
Chlorobenzene						0.00	ug/kg						
Toluene						0.560	ug/kg						
Trichloroethylene						0.00	ug/kg						
*Bromoform							ug/kg		78.3	(53.5 - 154.)			
*Dibromoform							ug/kg		97.0	(63.4 - 136.)			
*Toluene-d8							ug/kg		90.6	(72.1 - 137.)			
1,1,1,2-Tetrachloroethane						0.00	ug/kg						
1,1,1-Trichloroethane						0.00	ug/kg						
1,1,2,2-Tetrachloroethane						0.00	ug/kg						
1,1,2-Trichloroethane						0.00	ug/kg						
1,1-Dichloroethane						0.00	ug/kg						
1,2,3-Trichloropropane						0.00	ug/kg						
1,2-Dibromo-3-chloropropane						0.00	ug/kg						
1,2-Dibromoethane						0.00	ug/kg						
1,2-Dichlorobenzene						0.00	ug/kg						
1,2-Dichloroethane						0.00	ug/kg						
1,2-Dichloropropane						0.00	ug/kg						
1,2-cis-Dichloroethylene						0.00	ug/kg						
1,2-trans-Dichloroethylene						0.00	ug/kg						
2-Butanone						1.27	ug/kg						
2-Hexanone						0.00	ug/kg						
4-Methyl-2-pentanone						3.02	ug/kg						
Acetone						0.00	ug/kg						
Acetonitrile						0.00	ug/kg						
Acrolein						0.00	ug/kg						
Acrylonitrile						0.00	ug/kg						
Allyl Chloride						0.00	ug/kg						
Bromoform						0.00	ug/kg						
Carbon Disulfide						0.00	ug/kg						
Carbon Tetrachloride						0.00	ug/kg						
Chlorodibromomethane						0.00	ug/kg						
Chloroethane						0.00	ug/kg						
Chloroform						0.570	ug/kg						
Chloroprene						0.00	ug/kg						
Dibromomethane						0.00	ug/kg						
Dichlorobromomethane						0.00	ug/kg						

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9809429%

Report Date: September 23, 1998

Page 2 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Dichlorodifluoromethane						0.00	ug/kg				TCL	09/15/98	1642
Ethylbenzene						0.00	ug/kg						
isobutyl Alcohol						0.00	ug/kg						
Methacrylonitrile						0.00	ug/kg						
Methyl Bromide						0.00	ug/kg						
Methyl Chloride						0.00	ug/kg						
Methyl Iodide						0.00	ug/kg						
Methyl Methacrylate						0.00	ug/kg						
Methylene Chloride						0.00	ug/kg						
Propionitrile						0.00	ug/kg						
Styrene						0.00	ug/kg						
Tetrachloroethylene						0.00	ug/kg						
Trichlorofluoromethane						0.00	ug/kg						
Vinyl Acetate						0.00	ug/kg						
Vinyl chloride						0.00	ug/kg						
Xylenes (TOTAL)						0.00	ug/kg						
bis(2-Chloromethyl)ether						0.00	ug/kg						
cis-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,4-Dichloro-2-butene						0.00	ug/kg						
QC542671	BLANK	131349											
1,1-Dichloroethylene						0.00	ug/kg				TCL	09/16/98	1755
Benzene						0.00	ug/kg						
Chlorobenzene						0.00	ug/kg						
Toluene						2.94	ug/kg						
Trichloroethylene						0.00	ug/kg						
*Bromofluorobenzene							ug/kg	80.8	(53.5 - 154.)				
*Dibromoefluoromethane							ug/kg	97.5	(63.4 - 136.)				
*Toluene-d8							ug/kg	89.3	(72.1 - 137.)				
1,1,1,2-Tetrachloroethane						0.00	ug/kg						
1,1,1-Trichloroethane						0.00	ug/kg						
1,1,2,2-Tetrachloroethane						0.00	ug/kg						
1,1,2-Trichloroethane						0.00	ug/kg						
1,1-Dichloroethane						0.00	ug/kg						
1,2,3-Trichloropropane						0.00	ug/kg						
1,2-Dibromo-3-chloropropane						0.00	ug/kg						
1,2-Dibromoethane						0.00	ug/kg						
1,2-Dichlorobenzene						0.00	ug/kg						
2-Dichloroethane						0.00	ug/kg						
1,2-Dichloropropane						0.00	ug/kg						

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Printed on recycled paper

QC Summary Report

Project Description: SL'PSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9809429%

Report Date: September 23, 1998

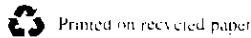
Page 3 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
1,2-cis-Dichloroethylene						0.00	ug/kg				TCL	09/16/98	1755
1,2-trans-Dichloroethylene						0.00	ug/kg						
2-Butanone						0.00	ug/kg						
2-Hexanone						0.00	ug/kg						
4-Methyl-2-pentanone						0.00	ug/kg						
Acetone						0.00	ug/kg						
Acetonitrile						0.00	ug/kg						
Acrolein						0.00	ug/kg						
Acrylonitrile						0.00	ug/kg						
Allyl Chloride						0.00	ug/kg						
Bromoform						0.00	ug/kg						
Carbon Disulfide						0.00	ug/kg						
Carbon Tetrachloride						0.00	ug/kg						
Chlorodibromomethane						0.00	ug/kg						
Chloroethane						0.00	ug/kg						
Chloroform						0.00	ug/kg						
Chloroprene						0.00	ug/kg						
Dibromomethane						0.00	ug/kg						
Dichlorodifluoromethane						0.00	ug/kg						
Ethylbenzene						0.00	ug/kg						
Isobutyl Alcohol						0.00	ug/kg						
Methacrylonitrile						0.00	ug/kg						
Methyl Bromide						0.00	ug/kg						
Methyl Chloride						0.00	ug/kg						
Methyl Iodide						0.00	ug/kg						
Methyl Methacrylate						0.00	ug/kg						
Methylene Chloride						0.00	ug/kg						
Propionitrile						0.00	ug/kg						
Styrene						0.00	ug/kg						
Tetrachloroethylene						0.00	ug/kg						
Trichlorofluoromethane						0.00	ug/kg						
Vinyl Acetate						0.00	ug/kg						
Vinyl chloride						0.00	ug/kg						
Xylenes (TOTAL)						0.00	ug/kg						
bis(2-Chloromethyl)ether						0.00	ug/kg						
cis-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,4-Dichloro-2-butene						0.00	ug/kg						

QCS42351

LCS 131261

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9809429%

Report Date: September 23, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
1,1-Dichloroethylene			50			42.9	ug/kg		85.8	(61.0 - 131.)	TCL	09/15/98	1535
Benzene			50			47.8	ug/kg		95.6	(64.0 - 126.)	TCL	09/15/98	1535
Chlorobenzene			50			58.3	ug/kg		118	(77.3 - 123.)			
Toluene			50			47.9	ug/kg		95.9	(70.4 - 130.)			
Trichloroethylene			50			51.9	ug/kg		104	(67.3 - 126.)			
*Bromofluorobenzene			50			36.0	ug/kg		73.2	(53.5 - 154.)			
*Dibromofluoromethane			50			43.0	ug/kg		86.0	(63.4 - 136.)			
*Toluene-d8			50			46.7	ug/kg		93.5	(72.1 - 137.)			
QC542672	LCS	131349											
1,1-Dichloroethylene			50			47.0	ug/kg		93.9	(61.0 - 131.)	TCL	09/16/98	1648
Benzene			50			47.8	ug/kg		95.6	(64.0 - 126.)			
Chlorobenzene			50			58.3	ug/kg		117	(77.3 - 123.)			
Toluene			50			47.9	ug/kg		95.8	(70.4 - 130.)			
Trichloroethylene			50			54.2	ug/kg		108	(67.3 - 126.)			
*Bromofluorobenzene			50			38.9	ug/kg		77.8	(53.5 - 154.)			
*Dibromofluoromethane			50			46.5	ug/kg		92.9	(63.4 - 136.)			
*Toluene-d8			50			44.0	ug/kg		87.9	(72.1 - 137.)			
QC542352	9809429-06PS	131261											
1,1-Dichloroethylene			50	0.00		42.6	ug/kg		85.2	(67.9 - 136.)	TCL	09/16/98	0155
Benzene			50	0.00		37.4	ug/kg		74.9	(62.2 - 131.)			
Chlorobenzene			50	0.00		29.8	ug/kg		59.6**	(74.4 - 127.)			
Toluene			50	0.00		34.6	ug/kg		69.2	(67.0 - 143.)			
Trichloroethylene			50	68.1		96.4	ug/kg		52.9**	(63.2 - 129.)			
*Bromofluorobenzene			50			46.9	ug/kg		93.7	(53.5 - 154.)			
*Dibromofluoromethane			50			51.2	ug/kg		102	(63.4 - 136.)			
*Toluene-d8			50			48.4	ug/kg		96.7	(72.1 - 137.)			
QC542673	9809429-21PS	131349											
1,1-Dichloroethylene			50	0.00		35.5	ug/kg		71.0	(67.9 - 136.)	TCL	09/17/98	0037
Benzene			50	1.25		38.6	ug/kg		75.3	(62.2 - 131.)			
Chlorobenzene			50	0.00		36.4	ug/kg		72.9**	(74.4 - 127.)			
Toluene			50	1.54		39.5	ug/kg		76.7	(67.0 - 143.)			
Trichloroethylene			50	52.0		87.4	ug/kg		99.9	(63.2 - 129.)			
*Bromofluorobenzene			50			42.2	ug/kg		84.3	(53.5 - 154.)			
*Dibromofluoromethane			50			50.0	ug/kg		100	(63.4 - 136.)			
*Toluene-d8			50			48.2	ug/kg		96.3	(72.1 - 137.)			
QC542353	9809429-06PSD	131261											
1,1-Dichloroethylene			50	0.00		45.3	ug/kg	7.13	91.5	(0.00 - 36.6)	TCL	09/16/98	0225
Benzene			50	0.00		41.0	ug/kg	9.17	82.1	(0.00 - 30.4)			
Chlorobenzene			50	0.00		34.6	ug/kg	14.9	69.2	(0.00 - 17.6)			
Toluene			50	0.00		38.9	ug/kg	11.6	77.7	(0.00 - 20.1)			

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9809429%

Report Date: September 23, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Trichloroethylene			50	68.1		108	ug/kg	35.6**	75.8	(0.00 - 34.1)	TCL	09/16/98	0225
*Bromofluorobenzene			50			44.7	ug/kg		89.3	(53.5 - 154.)			
*Dibromofluoromethane			50			51.1	ug/kg		102	(63.4 - 136.)			
*Toluene-d8			50			48.7	ug/kg		97.3	(72.1 - 137.)			
QC542674	9809429-21PSD	131349											
1,1-Dichloroethylene			50	0.00		38.2	ug/kg	7.50	76.4	(0.00 - 36.6)	TCL	09/17/98	0107
Benzene			50	1.25		37.6	ug/kg	2.61	73.4	(0.00 - 30.4)			
Chlorobenzene			50	0.00		35.8	ug/kg	1.83	71.6	(0.00 - 17.6)			
Toluene			50	1.54		37.9	ug/kg	4.34	73.5	(0.00 - 20.1)			
Trichloroethylene			50	52.0		76.7	ug/kg	24.0	78.5	(0.00 - 34.1)			
*Bromofluorobenzene			50			41.1	ug/kg		82.1	(53.5 - 154.)			
*Dibromofluoromethane			50			48.4	ug/kg		96.9	(63.4 - 136.)			
*Toluene-d8			50			47.4	ug/kg		94.8	(72.1 - 137.)			

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when

sample concentration exceeds spike conc by a factor of 4 or more



General Engineering Laboratories, Inc.
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CHAIN OF CUSTODY RECORD

9809429/6

SAMPLE ID	DATE	TIME	WELL SOIL COMP GRAB	# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods												Remarks	
					pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate <small>ACCVOK</small>	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide
-01	SPORT0804-1	9/14/98	1000	X X 3					X									NBCK 16650017-01
-02	SPORT0804-2	9/14/98	1010	X X 3					X									NBCK 16650018-01
-03	SPORT0804-3	9/14/98	1015	X X 3					X									NBCK 16650019-01
-04	SPORT0804-4	9/14/98	1020	X X 3					X									NBCK 16650020-01
-05	SPORT0804-5	9/14/98	1025	X X 3					X									NBCK 16650021-01
-06	SPORT0804-6	9/14/98	1030	X X 3					X									NBCK 16650022-01
-07	SPORT0804-7	9/14/98	1040	X X 3					X									NBCK 16650023-01
-08	SPORT0804-8	9/14/98	1035	X X 3					X									NBCK 16650024-01
-09	SPORT0804-9	9/14/98	1055	X X 3					X									NBCK 16650025-01
-10	SPORT0804-10	9/14/98	1100	X X 3					X									NBCK 16650026-01
-11	SPORT0804-11	9/14/98	1110	X X 3					X									NBCK 16650027-01
-12	SPORT0804-12	9/14/98	1115	X X 3					X									NBCK 16650028-01
-13	SPORT0804-13	9/14/98	1120	X X 3					X									NBCK 16650029-01
Relinquished by:				Date:	Time:	Received by:	Relinquished by:				Date:	Time:	Received by:					
<i>St. Leger</i>				9/14/98	1300	<i>Virginia L. Whigham</i>	<i>Virginia L. Whigham</i>				9/14/98	1530	<i>Bob H. Hodges</i>					
Relinquished by:				Date:	Time:	Received by lab by:	Date:				Time:	Remarks:						
<i>S. L. Hodges</i>				9/14/98	1600	<i>D. Francis</i>	9/14/98				1600							

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

CCL 35344

White = sample collector

Yellow = file

Pink = with report

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CHAIN OF CUSTODY RECORD

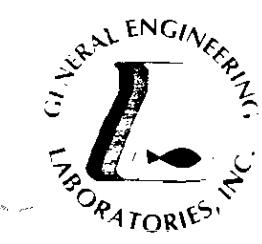
Page 2 of 3

SAMPLE ID	DATE	TIME	WELL SOIL COMP	GRAB	# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods												Remarks	
						pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate <small>Method required</small>	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type
-14	SPORT8D4-14	9/11/98	1130	X	X 3				X										NBCK16650030-01
-15	SPORT8D4-15	9/11/98	1130	X	X 3				X										NBCK16650031-01
-16	SPORT8D4-16	9/11/98	1135	X	X 3				X										NBCK16650032-01
-17	SPORT8D4-17	9/11/98	1140	X	X 3				X										NBCK16650033-01
-18	SPORT8D4-18	9/11/98	1150	X	X 3				X										NBCK16650034-01
-19	SPORT8D4-19	9/14/98	1200	X	X 3				X										NBCK16650035-01
-20	SPORT8D4-20	9/14/98	1205	X	X 3				X										NBCK16650036-01
-21	SPORT8D4-21	9/14/98	1215	X	X 3				X										NBCK16650037-01
-22	SPORT8D4-22	9/14/98	1220	X	X 3				X										NBCK16650038-01
-23	SPORT8D4-23	9/14/98	1050	X	X 3				X										NBCK16650039-02
-24	SPORT8D4-24	9/14/98	1105	X	X 3				X										NBCK16650040-02
-25	SPORT8D4-25	9/14/98	1140	X	X 3				X										NBCK16650041-02
-26	SPORT8D4-26	9/14/98	1155	X	X 3				X										NBCK16650042-02
Relinquished by:				Date:	Time:	Received by:	Relinquished by:				Date:	Time:	Received by:	Relinquished by:				Remarks:	
<i>R. Leyva</i>				9/11/98	1340	<i>Carroll 11 had info</i>	<i>Leyva 11 had info</i>				9/14/98	1530	<i>Carroll</i>	<i>Carroll 11 had info</i>					
Relinquished by:				Date:	Time:	Received by lab by:	Relinquished by:				Date:	Time:	Received by:	Relinquished by:				Remarks:	
<i>J. Schucker</i>				9/14/98	1600	<i>Francisco</i>	9/14/98				9/14/98	1600		9/14/98					

White = sample collector

Yellow = file

Pink = with report



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

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Sample ID	: 99SPORT0021-1
Lab ID	: 9810885-01
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

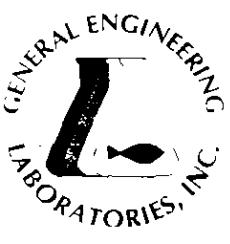
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.234	1.17	ug/kg	1.0	TCL	11/02/98	1401	135040	1
1,1,1-Trichloroethane	U	ND	0.117	1.17	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.702	1.17	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.351	1.17	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.117	1.17	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.351	1.17	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.468	1.17	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.49	0.468	1.17	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.234	1.17	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.585	1.17	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.234	1.17	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.234	1.17	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.117	1.17	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.117	1.17	ug/kg	1.0					
2-Butanone	U	ND	3.74	5.85	ug/kg	1.0					
2-Hexanone	U	ND	3.28	5.85	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.63	5.85	ug/kg	1.0					
Acetone		12.1	12.1	12.1	ug/kg	1.0					
Acetonitrile	U	ND	1.17	29.3	ug/kg	1.0					
Acrolein	U	ND	5.38	11.7	ug/kg	1.0					
Acrylonitrile	U	ND	4.56	11.7	ug/kg	1.0					
Allyl Chloride	U	ND	0.468	5.85	ug/kg	1.0					
Benzene	U	ND	0.585	1.17	ug/kg	1.0					
Bromoform	U	ND	0.351	1.17	ug/kg	1.0					
Carbon Disulfide	J	1.68	0.351	5.85	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.585	1.17	ug/kg	1.0					
Chlorobenzene	U	ND	0.351	1.17	ug/kg	1.0					

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9810885-01



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

Sample ID : 99SPORT0021-1

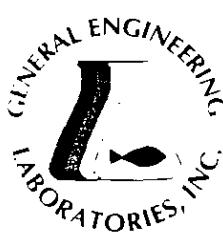
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.234	1.17	ug/kg	1.0					
Chloroethane	U	ND	0.351	1.17	ug/kg	1.0	TCL	11/02/98	1401	135040	1
Chloroform	U	ND	0.117	1.17	ug/kg	1.0					
Chloroprene	U	ND	11.7	23.4	ug/kg	1.0					
Dibromomethane	U	ND	0.234	1.17	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.117	1.17	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.40	1.40	ug/kg	1.0					
Ethylbenzene	U	ND	0.351	1.17	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.37	11.7	ug/kg	1.0					
Methacrylonitrile	U	ND	1.05	5.85	ug/kg	1.0					
Methyl Bromide	U	ND	0.351	1.17	ug/kg	1.0					
Methyl Chloride	U	ND	0.234	1.17	ug/kg	1.0					
Methyl Iodide	J	1.04	0.702	5.85	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.468	5.85	ug/kg	1.0					
Methylene Chloride		2.30		1.64	ug/kg	1.0					
Propionitrile	U	ND	3.98	11.7	ug/kg	1.0					
Styrene	U	ND	0.351	1.17	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.468	1.17	ug/kg	1.0					
Toluene	U	ND	1.05	1.17	ug/kg	1.0					
Trichloroethylene		1.63	0.351	1.17	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.351	1.17	ug/kg	1.0					
Vinyl Acetate	U	ND	2.46	5.85	ug/kg	1.0					
Vinyl chloride	U	ND	0.468	1.17	ug/kg	1.0					
Xylenes (TOTAL)	J	1.28	0.819	2.34	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.96	11.7	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.234	1.17	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.351	1.17	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.585	5.85	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0827 135040 2

Comments:



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-1

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	100.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	93.7	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	81.5	(72.1 - 137.)

M = Method	Method-Description
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M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

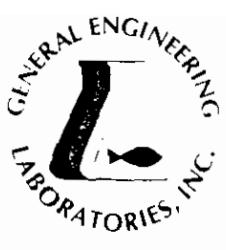
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
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STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID : 99SPORT0021-2
Lab ID : 9810885-02
Matrix : Soil
Date Collected : 10/26/98
Date Received : 10/26/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.188	1.00	ug/kg	1.0	TCL	11/02/98	1430	135040	1
1,1,1-Trichloroethane	U	ND	0.0942	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.565	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.283	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0942	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.283	1.00	ug/kg	1.0					
1,2,3-Trichloropropene	U	ND	0.377	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.18	0.377	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.188	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.471	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.188	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.188	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0942	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0942	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.01	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.64	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.92	5.00	ug/kg	1.0					
Acetone	U	ND	9.70	9.70	ug/kg	1.0					
Acetonitrile	U	ND	0.942	25.0	ug/kg	1.0					
Acrolein	U	ND	4.33	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.67	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.377	5.00	ug/kg	1.0					
Benzene	U	ND	0.471	1.00	ug/kg	1.0					
Bromoform	U	ND	0.283	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.22	0.283	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.471	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.283	1.00	ug/kg	1.0					

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STATE	GEL	EPI
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

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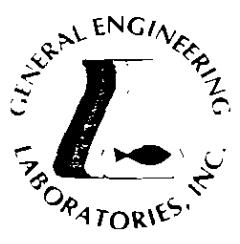
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.188	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.283	1.00	ug/kg	1.0	TCL	11/02/98	1430	135040	1
Chloroform	U	ND	0.0942	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.42	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.188	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0942	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.13	1.13	ug/kg	1.0					
Ethylbenzene	U	ND	0.283	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.93	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.848	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.283	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.188	1.00	ug/kg	1.0					
Methyl Iodide	J	0.820	0.565	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.377	5.00	ug/kg	1.0					
Methylene Chloride		1.87	1.32	1.32	ug/kg	1.0					
Propionitrile	U	ND	3.20	10.0	ug/kg	1.0					
Styrene	U	ND	0.283	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.377	1.00	ug/kg	1.0					
Toluene	U	ND	0.848	1.00	ug/kg	1.0					
Trichloroethylene		1.14	0.283	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.283	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	1.98	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.377	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.942	0.659	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.79	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.188	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.669	0.283	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.471	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0832 135040 2

Comments:



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-R260B	98.7	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	92.6	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	81.1	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

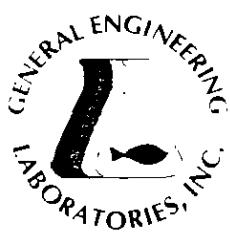
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
Reviewed By



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID	: 99SPORT0021-3
Lab ID	: 9810885-03
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.187	1.00	ug/kg	1.0	TCL	11/02/98	1458	135040	1
1,1,1-Trichloroethane	U	ND	0.0935	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.561	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.281	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0935	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.281	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.374	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.12	0.374	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.187	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.468	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.187	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.187	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0935	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0935	1.00	ug/kg	1.0					
2-Butanone	U	ND	2.99	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.62	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.90	5.00	ug/kg	1.0					
Acetone	U	ND	9.63	9.63	ug/kg	1.0					
Acetonitrile	U	ND	0.935	25.0	ug/kg	1.0					
Acrolein	U	ND	4.30	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.65	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.374	5.00	ug/kg	1.0					
Benzene	U	ND	0.468	1.00	ug/kg	1.0					
Bromotform	U	ND	0.281	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.33	0.281	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.468	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.281	1.00	ug/kg	1.0					

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FL	E87156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

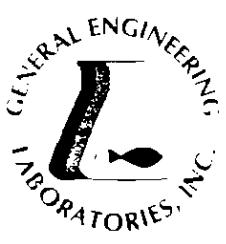
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.187	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.281	1.00	ug/kg	1.0	TCL	11/02/98	1458	135040	1
Chloroform	U	ND	0.0935	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.35	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.187	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0935	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.12	1.12	ug/kg	1.0					
Ethylbenzene	U	ND	0.281	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.89	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.842	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.281	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.187	1.00	ug/kg	1.0					
Methyl Iodide	J	0.813	0.561	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.374	5.00	ug/kg	1.0					
Methylene Chloride		2.64	1.31	1.31	ug/kg	1.0					
Propionitrile	U	ND	3.18	10.0	ug/kg	1.0					
Styrene	U	ND	0.281	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.374	1.00	ug/kg	1.0					
Toluene	U	ND	0.842	1.00	ug/kg	1.0					
Trichloroethylene	J	0.748	0.281	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.281	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	1.96	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.374	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.804	0.655	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.76	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.187	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.608	0.281	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.468	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0836 135040 2

Comments:



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	113	
SC	10130	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	99.6	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	95.1	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	84.1	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
Reviewed By



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID	.99SPORT0021-4
Lab ID	:9810885-04
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.186	1.00	ug/kg	1.0	TCL	11/03/98	1425	135040	1
1,1,1-Trichloroethane	U	ND	0.0931	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.559	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.279	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0931	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.279	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.372	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.24	0.372	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.186	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.466	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.186	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.186	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0931	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0931	1.00	ug/kg	1.0					
2-Butanone	U	ND	2.98	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.61	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.89	5.00	ug/kg	1.0					
Acetone	U	ND	9.59	9.59	ug/kg	1.0					
Acetonitrile	U	ND	0.931	25.0	ug/kg	1.0					
Acrolein	U	ND	4.28	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.63	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.372	5.00	ug/kg	1.0					
Benzene	U	ND	0.466	1.00	ug/kg	1.0					
Bromoform	U	ND	0.279	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.28	0.279	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.466	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.279	1.00	ug/kg	1.0					

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.186	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.279	1.00	ug/kg	1.0	TCL	11/03/98	1425	135040	1
Chloroform	U	ND	0.0931	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.31	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.186	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0931	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.12	1.12	ug/kg	1.0					
Ethylbenzene	U	ND	0.279	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.87	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.838	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.279	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.186	1.00	ug/kg	1.0					
Methyl Iodide	J	1.01	0.559	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.372	5.00	ug/kg	1.0					
Methylene Chloride		3.98	1.30	1.30	ug/kg	1.0					
Propionitrile	U	ND	3.17	10.0	ug/kg	1.0					
Styrene	U	ND	0.279	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.372	1.00	ug/kg	1.0					
Toluene	U	ND	0.838	1.00	ug/kg	1.0					
Trichloroethylene	J	0.978	0.279	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.279	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	1.96	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.372	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.847	0.652	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.74	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.186	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.279	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.466	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0843 135040 2

Comments:



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-4

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	93.0	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	93.6	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	83.1	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
Reviewed By



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106
 Contact: Mr. Bill Hiers
 Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID	: 99SPORT0021-5
Lab ID	: 9810885-05
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

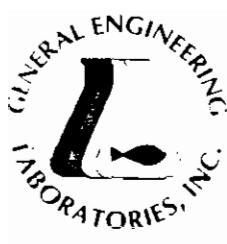
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.199	1.00	ug/kg	1.0	TCL	11/02/98	1555	135040	1
1,1,1-Trichloroethane	U	ND	0.0996	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.598	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.299	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0996	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.299	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.398	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.15	0.398	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.199	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.498	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.199	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.199	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0996	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0996	1.00	ug/kg	1.0					
2-Butanone	J	3.22	3.19	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.79	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.09	5.00	ug/kg	1.0					
Acetone		12.4	10.3	10.3	ug/kg	1.0					
Acetonitrile	U	ND	0.996	25.0	ug/kg	1.0					
Acrolein	U	ND	4.58	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.88	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.398	5.00	ug/kg	1.0					
Benzene	U	ND	0.498	1.00	ug/kg	1.0					
Bromoform	U	ND	0.299	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.20	0.299	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.498	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.299	1.00	ug/kg	1.0					

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.199	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.299	1.00	ug/kg	1.0	TCL	11/02/98	1555	135040	1
Chloroform	U	ND	0.0996	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.96	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.199	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0996	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.20	1.20	ug/kg	1.0					
Ethylbenzene	U	ND	0.299	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.27	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.896	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.299	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.199	1.00	ug/kg	1.0					
Methyl Iodide	J	0.787	0.598	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.398	5.00	ug/kg	1.0					
Methylene Chloride		2.06	1.39	1.39	ug/kg	1.0					
Propionitrile	U	ND	3.39	10.0	ug/kg	1.0					
Styrene	U	ND	0.299	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.398	1.00	ug/kg	1.0					
Toluene	U	ND	0.896	1.00	ug/kg	1.0					
Trichloroethylene	U	ND	0.299	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.299	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.09	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.398	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.896	0.697	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.07	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.199	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.637	0.299	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.498	5.00	ug/kg	1.0					

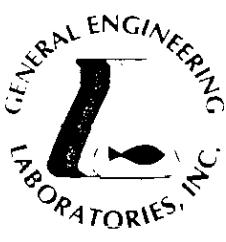
The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0848 135040 2

Comments:





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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-5

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	92.2	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	89.0	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	77.2	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

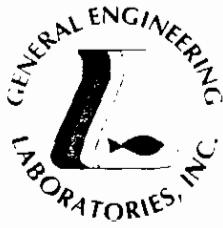
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

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STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID : 99SPORT0021-6
Lab ID : 9810885-06
Matrix : Soil
Date Collected : 10/26/98
Date Received : 10/26/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.194	1.00	ug/kg	1.0	TCL	11/02/98	1624	135040	1
1,1,1-Trichloroethane	U	ND	0.0971	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.583	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.291	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0971	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.291	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.388	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.15	0.388	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.194	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.486	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.194	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.194	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	J	0.534	0.0971	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0971	1.00	ug/kg	1.0					
2-Butanone	J	3.85	3.11	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.72	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.01	5.00	ug/kg	1.0					
Acetone		10.4	10.0	10.0	ug/kg	1.0					
Acetonitrile	U	ND	0.971	25.0	ug/kg	1.0					
Acrolein	U	ND	4.47	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.79	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.388	5.00	ug/kg	1.0					
Benzene	J	0.641	0.486	1.00	ug/kg	1.0					
Bromoform	U	ND	0.291	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.40	0.291	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.486	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.291	1.00	ug/kg	1.0					

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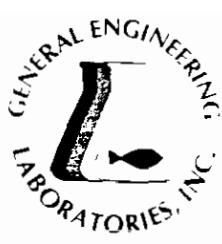
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FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.194	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.291	1.00	ug/kg	1.0	TCL	11/02/98	1624	135040	1
Chloroform	U	ND	0.0971	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.71	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.194	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0971	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.17	1.17	ug/kg	1.0					
Ethylbenzene	U	ND	0.291	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.12	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.874	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.291	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.194	1.00	ug/kg	1.0					
Methyl Iodide	J	0.835	0.583	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.388	5.00	ug/kg	1.0					
Methylene Chloride		3.46	1.36	1.36	ug/kg	1.0					
Propionitrile	U	ND	3.30	10.0	ug/kg	1.0					
Styrene	U	ND	0.291	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.388	1.00	ug/kg	1.0					
Toluene	U	ND	0.874	1.00	ug/kg	1.0					
Trichloroethylene		19.8	0.291	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.291	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.04	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.388	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.922	0.680	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.94	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.194	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.660	0.291	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.486	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0855 135040 2

Comments:



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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

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Sample ID : 99SPORT0021-6

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	89.4	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	94.0	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	79.6	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID	: 99SPORT0021-7
Lab ID	: 9810885-07
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.216	1.08	ug/kg	1.0	TCL	11/02/98	1652	135040	1
1,1,1-Trichloroethane	U	ND	0.108	1.08	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.648	1.08	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.324	1.08	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.108	1.08	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.324	1.08	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.432	1.08	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.21	0.432	1.08	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.216	1.08	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.540	1.08	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.216	1.08	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.216	1.08	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.108	1.08	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.108	1.08	ug/kg	1.0					
2-Butanone	U	ND	3.46	5.40	ug/kg	1.0					
2-Hexanone	J	3.35	3.02	5.40	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.35	5.40	ug/kg	1.0					
Acetone		15.4	11.1	11.1	ug/kg	1.0					
Acetonitrile	U	ND	1.08	27.0	ug/kg	1.0					
Acrolein	U	ND	4.97	10.8	ug/kg	1.0					
Acrylonitrile	U	ND	4.21	10.8	ug/kg	1.0					
Allyl Chloride	U	ND	0.432	5.40	ug/kg	1.0					
Benzene	U	ND	0.540	1.08	ug/kg	1.0					
Bromoform	U	ND	0.324	1.08	ug/kg	1.0					
Carbon Disulfide	J	1.45	0.324	5.40	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.540	1.08	ug/kg	1.0					
Chlorobenzene	U	ND	0.324	1.08	ug/kg	1.0					

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SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.216	1.08	ug/kg	1.0					
Chloroethane	U	ND	0.324	1.08	ug/kg	1.0	TCL	11/02/98	1652	135040	1
Chloroform	U	ND	0.108	1.08	ug/kg	1.0					
Chloroprene	U	ND	10.8	21.6	ug/kg	1.0					
Dibromomethane	U	ND	0.216	1.08	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.108	1.08	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.30	1.30	ug/kg	1.0					
Ethylbenzene	U	ND	0.324	1.08	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.80	10.8	ug/kg	1.0					
Methacrylonitrile	U	ND	0.972	5.40	ug/kg	1.0					
Methyl Bromide	U	ND	0.324	1.08	ug/kg	1.0					
Methyl Chloride	U	ND	0.216	1.08	ug/kg	1.0					
Methyl Iodide	J	0.864	0.648	5.40	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.432	5.40	ug/kg	1.0					
Methylene Chloride		2.72	1.51	1.51	ug/kg	1.0					
Propionitrile	U	ND	3.67	10.8	ug/kg	1.0					
Styrene	U	ND	0.324	1.08	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.432	1.08	ug/kg	1.0					
Toluene	J	1.07	0.972	1.08	ug/kg	1.0					
Trichloroethylene		9.86	0.324	1.08	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.324	1.08	ug/kg	1.0					
Vinyl Acetate	U	ND	2.27	5.40	ug/kg	1.0					
Vinyl chloride	U	ND	0.432	1.08	ug/kg	1.0					
Xylenes (TOTAL)	J	0.907	0.756	2.16	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.50	10.8	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.216	1.08	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.853	0.324	1.08	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.540	5.40	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0859 135040 2

Comments:



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NC	233	
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TN	02934	02934

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Project Description: SUPSHIP-Portsmouth Detachment

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Page 3 of 3

Sample ID : 99SPORT0021-7

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	93.6	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	88.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	79.5	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

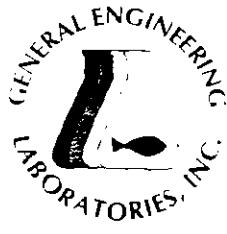
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Reviewed By

Karen Blakeney



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Project Description: SUPSHIP-Portsmouth Detachment

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Page 1 of 3

Sample ID : 99SPORT0021-8
Lab ID : 9810885-08
Matrix : Soil
Date Collected : 10/26/98
Date Received : 10/26/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.195	1.00	ug/kg	1.0	TCL	11/02/98	1721	135040	1
1,1,1-Trichloroethane	U	ND	0.0975	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.585	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.293	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0975	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.293	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.390	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.20	0.390	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.195	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.488	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.195	1.00	ug/kg	1.0					
1,2-Dichloropropene	U	ND	0.195	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0975	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0975	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.12	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.73	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.02	5.00	ug/kg	1.0					
Acetone	U	ND	10.0	10.0	ug/kg	1.0					
Acetonitrile	U	ND	0.975	25.0	ug/kg	1.0					
Acrolein	U	ND	4.49	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.80	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.390	5.00	ug/kg	1.0					
Benzene	U	ND	0.488	1.00	ug/kg	1.0					
Bromoform	U	ND	0.293	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.32	0.293	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.488	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.293	1.00	ug/kg	1.0					

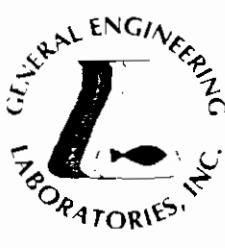
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.195	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.293	1.00	ug/kg	1.0	TCL	11/02/98	1721	135040	1
Chloroform	U	ND	0.0975	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.75	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.195	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0975	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.17	1.17	ug/kg	1.0					
Ethylbenzene	U	ND	0.293	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.14	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.878	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.293	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.195	1.00	ug/kg	1.0					
Methyl Iodide	J	0.800	0.585	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.390	5.00	ug/kg	1.0					
Methylene Chloride		1.88	1.37	1.37	ug/kg	1.0					
Propionitrile	U	ND	3.32	10.0	ug/kg	1.0					
Styrene	U	ND	0.293	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.390	1.00	ug/kg	1.0					
Toluene	U	ND	0.878	1.00	ug/kg	1.0					
Trichloroethylene	U	ND	0.293	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.293	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.05	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.390	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.829	0.683	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.96	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.195	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.624	0.293	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.488	5.00	ug/kg	1.0					

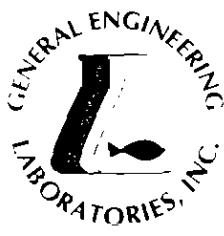
The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0903 135040 2

Comments:





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Project Description: SUPSHIP-Portsmouth Detachment

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Page 3 of 3

Sample ID : 99SPORT0021-8

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											
Surrogate Recovery	Test	Percent %			Acceptable Limits						
Bromofluorobenzene	APP 9 VOA-8260B	93.4			(53.5 - 154.)						
Dibromofluoromethane	APP 9 VOA-8260B	92.8			(63.4 - 136.)						
Toluene-d8	APP 9 VOA-8260B	77.9			(72.1 - 137.)						

M = Method

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

N indicates that the analyte was not detected at a concentration greater than the detection limit.

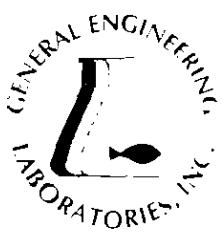
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

- indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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standard operating procedures. Please direct
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID	:	99SPORT0021-9
Lab ID	:	9810885-09
Matrix	:	Soil
Date Collected	:	10/26/98
Date Received	:	10/26/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
Appendix IX Volatiles - 55 items											
1,1,1,2-Tetrachloroethane	U	ND	0.272	1.36	ug/kg	1.0	TCL	11/02/98	1749	135040	1
1,1,1-Trichloroethane	U	ND	0.136	1.36	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.816	1.36	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.408	1.36	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.136	1.36	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.408	1.36	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.544	1.36	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.71	0.544	1.36	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.272	1.36	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.680	1.36	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.272	1.36	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.272	1.36	ug/kg	1.0					
1,2-cis-Dichloroethylene	J	0.843	0.136	1.36	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.136	1.36	ug/kg	1.0					
2-Butanone	J	5.41	4.35	6.80	ug/kg	1.0					
2-Hexanone	U	ND	3.81	6.80	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	4.22	6.80	ug/kg	1.0					
Acetone		27.2	14.0	14.0	ug/kg	1.0					
Acetonitrile	U	ND	1.36	34.0	ug/kg	1.0					
Acrolein	U	ND	6.26	13.6	ug/kg	1.0					
Acrylonitrile	U	ND	5.30	13.6	ug/kg	1.0					
Allyl Chloride	U	ND	0.544	6.80	ug/kg	1.0					
Benzene	J	0.694	0.680	1.36	ug/kg	1.0					
Bromoform	U	ND	0.408	1.36	ug/kg	1.0					
Carbon Disulfide	J	1.93	0.408	6.80	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.680	1.36	ug/kg	1.0					
Chlorobenzene	U	ND	0.408	1.36	ug/kg	1.0					

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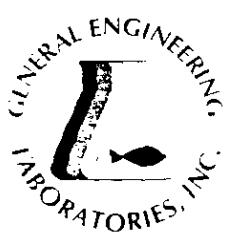
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NC	233	
SC	10120	10582
TN	02934	02934

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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.272	1.36	ug/kg	1.0					
Chloroethane	U	ND	0.408	1.36	ug/kg	1.0	TCL	11/02/98	1749	135040	1
Chloroform	U	ND	0.136	1.36	ug/kg	1.0					
Chloroprene	U	ND	13.6	27.2	ug/kg	1.0					
Dibromomethane	U	ND	0.272	1.36	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.136	1.36	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.63	1.63	ug/kg	1.0					
Ethylbenzene	U	ND	0.408	1.36	ug/kg	1.0					
Isobutyl Alcohol	U	ND	8.57	13.6	ug/kg	1.0					
Methacrylonitrile	U	ND	1.22	6.80	ug/kg	1.0					
Methyl Bromide	U	ND	0.408	1.36	ug/kg	1.0					
Methyl Chloride	U	ND	0.272	1.36	ug/kg	1.0					
Methyl Iodide	J	1.17	0.816	6.80	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.544	6.80	ug/kg	1.0					
Methylene Chloride		3.93		1.90	ug/kg	1.0					
Propionitrile	U	ND	4.62	13.6	ug/kg	1.0					
Styrene	U	ND	0.408	1.36	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.544	1.36	ug/kg	1.0					
Toluene	U	ND	1.22	1.36	ug/kg	1.0					
Trichloroethylene		12.2	0.408	1.36	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.408	1.36	ug/kg	1.0					
Vinyl Acetate	U	ND	2.86	6.80	ug/kg	1.0					
Vinyl chloride	U	ND	0.544	1.36	ug/kg	1.0					
Xylenes (TOTAL)	J	1.14	0.952	2.72	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	6.92	13.6	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.272	1.36	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	1.21	0.408	1.36	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.680	6.80	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

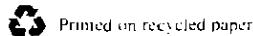
TCL 10/27/98 0906 135040 2

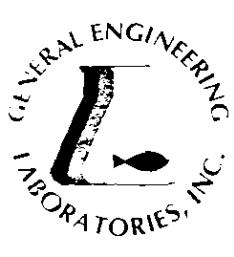
Comments:

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9810885-09





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STATE	GEL	EPI
FL	E87156/87294	E87472/874.
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-9

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	95.2	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	94.7	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	83.2	(72.1 - 137.)

M = Method	Method-Description
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M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

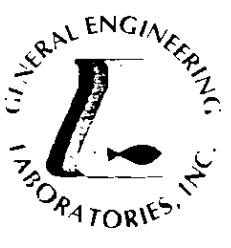
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By

Karen Blakeney



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STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID	: 99SPORT0021-10
Lab ID	: 9810885-10
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.238	1.19	ug/kg	1.0	TCL	11/02/98	1818	135040	1
1,1,1-Trichloroethane	U	ND	0.119	1.19	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.714	1.19	ug/kg	1.0					
1,1,2-Trichloroethane	J	0.655	0.357	1.19	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.119	1.19	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.357	1.19	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.476	1.19	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.476	1.19	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.238	1.19	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.595	1.19	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.238	1.19	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.238	1.19	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.119	1.19	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.119	1.19	ug/kg	1.0					
2-Butanone		6.34	3.81	5.95	ug/kg	1.0					
2-Hexanone	U	ND	3.33	5.95	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.69	5.95	ug/kg	1.0					
Acetone		45.7	12.3	12.3	ug/kg	1.0					
Acetonitrile	U	ND	1.19	29.8	ug/kg	1.0					
Acrolein	U	ND	5.47	11.9	ug/kg	1.0					
Acrylonitrile	U	ND	4.64	11.9	ug/kg	1.0					
Allyl Chloride	U	ND	0.476	5.95	ug/kg	1.0					
Benzene	J	0.631	0.595	1.19	ug/kg	1.0					
Bromoform	U	ND	0.357	1.19	ug/kg	1.0					
Carbon Disulfide	J	1.69	0.357	5.95	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.595	1.19	ug/kg	1.0					
Chlorobenzene	U	ND	0.357	1.19	ug/kg	1.0					

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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 04, 1998

Page 2 of 3

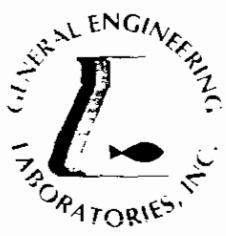
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.238	1.19	ug/kg	1.0					
Chloroethane	U	ND	0.357	1.19	ug/kg	1.0	TCL	11/02/98	1818	135040	1
Chloroform	U	ND	0.119	1.19	ug/kg	1.0					
Chloroprene	U	ND	11.9	23.8	ug/kg	1.0					
Dibromomethane	U	ND	0.238	1.19	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.119	1.19	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.43	1.43	ug/kg	1.0					
Ethylbenzene	J	0.619	0.357	1.19	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.50	11.9	ug/kg	1.0					
Methacrylonitrile	U	ND	1.07	5.95	ug/kg	1.0					
Methyl Bromide	U	ND	0.357	1.19	ug/kg	1.0					
Methyl Chloride	U	ND	0.238	1.19	ug/kg	1.0					
Methyl Iodide	J	1.08	0.714	5.95	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.476	5.95	ug/kg	1.0					
Methylene Chloride		2.94	1.67	1.67	ug/kg	1.0					
Propionitrile	U	ND	4.05	11.9	ug/kg	1.0					
Styrene	U	ND	0.357	1.19	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.476	1.19	ug/kg	1.0					
Toluene		3.96	1.07	1.19	ug/kg	1.0					
Trichloroethylene		12.8	0.357	1.19	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.357	1.19	ug/kg	1.0					
Vinyl Acetate	U	ND	2.50	5.95	ug/kg	1.0					
Vinyl chloride	U	ND	0.476	1.19	ug/kg	1.0					
Xylenes (TOTAL)		2.44	0.833	2.38	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	6.06	11.9	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.238	1.19	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	1.18	0.357	1.19	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.595	5.95	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0915 135040 2

Comments:



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NC	133	
SC	10120	10582
TN	02934	02934

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Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 04, 1998

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Sample ID : 99SPORT0021-10

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	87.6	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	95.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	90.9	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

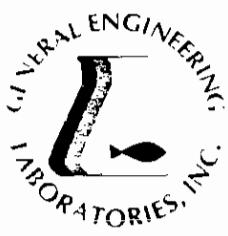
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
Reviewed By



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FL	E87156/87294	E87472/874!
NC	233	
SC	10120	10582
TN	02934	02934

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Page 1 of 3

Sample ID	: 99SPORT0021-11
Lab ID	: 9810885-11
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.252	1.26	ug/kg	1.0	TCL	11/02/98	1846	135040	1
1,1,1-Trichloroethane	U	ND	0.126	1.26	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.756	1.26	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.378	1.26	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.126	1.26	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.378	1.26	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.504	1.26	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.504	1.26	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.252	1.26	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.630	1.26	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.252	1.26	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.252	1.26	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.126	1.26	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.126	1.26	ug/kg	1.0					
2-Butanone		9.82	4.03	6.30	ug/kg	1.0					
2-Hexanone		6.39	3.53	6.30	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.91	6.30	ug/kg	1.0					
Acetone		57.3	13.0	13.0	ug/kg	1.0					
Acetonitrile	U	ND	1.26	31.5	ug/kg	1.0					
Acrolein	U	ND	5.80	12.6	ug/kg	1.0					
Acrylonitrile	U	ND	4.91	12.6	ug/kg	1.0					
Allyl Chloride	U	ND	0.504	6.30	ug/kg	1.0					
Benzene		2.17	0.630	1.26	ug/kg	1.0					
Bromoform	U	ND	0.378	1.26	ug/kg	1.0					
Carbon Disulfide	J	2.19	0.378	6.30	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.630	1.26	ug/kg	1.0					
Chlorobenzene	U	ND	0.378	1.26	ug/kg	1.0					

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SC	10120	10582
TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

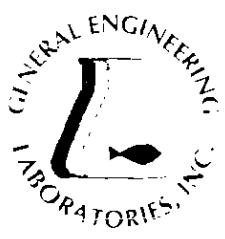
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.252	1.26	ug/kg	1.0					
Chloroethane	U	ND	0.378	1.26	ug/kg	1.0	TCL	11/02/98	1846	135040	1
Chloroform	U	ND	0.126	1.26	ug/kg	1.0					
Chloroprene	U	ND	12.6	25.2	ug/kg	1.0					
Dibromomethane	U	ND	0.252	1.26	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.126	1.26	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.51	1.51	ug/kg	1.0					
Ethylbenzene	J	0.731	0.378	1.26	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.94	12.6	ug/kg	1.0					
Methacrylonitrile	U	ND	1.13	6.30	ug/kg	1.0					
Methyl Bromide	U	ND	0.378	1.26	ug/kg	1.0					
Methyl Chloride	U	ND	0.252	1.26	ug/kg	1.0					
Methyl Iodide	J	1.16	0.756	6.30	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.504	6.30	ug/kg	1.0					
Methylene Chloride		4.91	1.76	1.76	ug/kg	1.0					
Propionitrile	U	ND	4.28	12.6	ug/kg	1.0					
Styrene	U	ND	0.378	1.26	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.504	1.26	ug/kg	1.0					
Toluene		3.35	1.13	1.26	ug/kg	1.0					
Trichloroethylene		8.40	0.378	1.26	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.378	1.26	ug/kg	1.0					
Vinyl Acetate	U	ND	2.65	6.30	ug/kg	1.0					
Vinyl chloride	U	ND	0.504	1.26	ug/kg	1.0					
Xylenes (TOTAL)		2.66	0.882	2.52	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	6.41	12.6	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.252	1.26	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.932	0.378	1.26	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.630	6.30	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0920 135040 2

Comments:



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STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-11

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	95.2	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	96.3	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	92.9	(72.1 - 137.)

M = Method	Method-Description
------------	--------------------

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
Reviewed By



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FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID : 99SPORT0021-12
Lab ID : 9810885-12
Matrix : Soil
Date Collected : 10/26/98
Date Received : 10/26/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.180	1.00	ug/kg	1.0	TCL	11/02/98	1915	135040	1
1,1,1-Trichloroethane	U	ND	0.0901	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.541	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.270	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0901	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.270	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.360	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.07	0.360	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.180	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.451	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.180	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.180	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0901	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0901	1.00	ug/kg	1.0					
2-Butanone	U	ND	2.88	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.52	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.79	5.00	ug/kg	1.0					
Acetone	U	ND	9.28	9.28	ug/kg	1.0					
Acetonitrile	U	ND	0.901	25.0	ug/kg	1.0					
Acrolein	U	ND	4.14	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.51	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.360	5.00	ug/kg	1.0					
Benzene	U	ND	0.451	1.00	ug/kg	1.0					
Bromoform	U	ND	0.270	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.26	0.270	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.451	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.270	1.00	ug/kg	1.0					

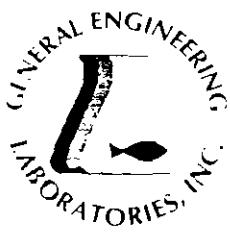
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1899 North Hobson Ave.
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 04, 1998

Page 2 of 3

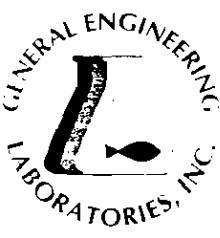
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.180	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.270	1.00	ug/kg	1.0	TCL	11/02/98	1915	135040	1
Chloroform	U	ND	0.0901	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.01	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.180	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0901	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.08	1.08	ug/kg	1.0					
Ethylbenzene	U	ND	0.270	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.68	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.811	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.270	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.180	1.00	ug/kg	1.0					
Methyl Iodide	J	0.757	0.541	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.360	5.00	ug/kg	1.0					
Methylene Chloride		1.77	1.26	1.26	ug/kg	1.0					
Propionitrile	U	ND	3.06	10.0	ug/kg	1.0					
Styrene	U	ND	0.270	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.360	1.00	ug/kg	1.0					
Toluene	U	ND	0.811	1.00	ug/kg	1.0					
Trichloroethylene	U	ND	0.270	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.270	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	1.89	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.360	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.766	0.631	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.59	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.505	0.270	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.451	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0924 135040 2

Comments:



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TN	02934	02934

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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID		99SPORT0021-12																
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M							
Data reported in mass/mass units is reported 'as received'.																		
Surrogate Recovery		Test	Percent %		Acceptable Limits													
Bromofluorobenzene		APP 9 VOA-8260B	94.1		(53.5 - 154.)													
Dibromofluoromethane		APP 9 VOA-8260B	94.8		(63.4 - 136.)													
Toluene-d8		APP 9 VOA-8260B	81.1		(72.1 - 137.)													
M = Method			Method-Description															
M 1			EPA 8260B															
M 2			EPA 5035															

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Karen Blakeney
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Page 1 of 3

Sample ID	: 99SPORT0021-13
Lab ID	: 9810885-13
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.206	1.03	ug/kg	1.0	TCL	11/02/98	1943	135040	1
1,1,1-Trichloroethane	U	ND	0.103	1.03	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.618	1.03	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.309	1.03	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.103	1.03	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.309	1.03	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.412	1.03	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.412	1.03	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.206	1.03	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.515	1.03	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.206	1.03	ug/kg	1.0					
1,2-Dichloropropene	U	ND	0.206	1.03	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.103	1.03	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.103	1.03	ug/kg	1.0					
2-Butanone		8.94	3.30	5.15	ug/kg	1.0					
2-Hexanone	U	ND	2.88	5.15	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.19	5.15	ug/kg	1.0					
Acetone		71.9	10.6	10.6	ug/kg	1.0					
Acetonitrile	U	ND	1.03	25.8	ug/kg	1.0					
Acrolein	U	ND	4.74	10.3	ug/kg	1.0					
Acrylonitrile	U	ND	4.02	10.3	ug/kg	1.0					
Allyl Chloride	U	ND	0.412	5.15	ug/kg	1.0					
Benzene		1.24	0.515	1.03	ug/kg	1.0					
Bromoform	U	ND	0.309	1.03	ug/kg	1.0					
Carbon Disulfide	J	2.22	0.309	5.15	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.515	1.03	ug/kg	1.0					
Chlorobenzene	U	ND	0.309	1.03	ug/kg	1.0					

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Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.206	1.03	ug/kg	1.0					
Chloroethane	U	ND	0.309	1.03	ug/kg	1.0	TCL	11/02/98	1943	135040	1
Chloroform	U	ND	0.103	1.03	ug/kg	1.0					
Chloroprene	U	ND	10.3	20.6	ug/kg	1.0					
Dibromomethane	U	ND	0.206	1.03	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.103	1.03	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.24	1.24	ug/kg	1.0					
Ethylbenzene	U	ND	0.309	1.03	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.49	10.3	ug/kg	1.0					
Methacrylonitrile	U	ND	0.927	5.15	ug/kg	1.0					
Methyl Bromide	U	ND	0.309	1.03	ug/kg	1.0					
Methyl Chloride	U	ND	0.206	1.03	ug/kg	1.0					
Methyl Iodide	J	0.968	0.618	5.15	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.412	5.15	ug/kg	1.0					
Methylene Chloride		1.75	1.44	1.44	ug/kg	1.0					
Propionitrile	U	ND	3.50	10.3	ug/kg	1.0					
Styrene	U	ND	0.309	1.03	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.412	1.03	ug/kg	1.0					
Toluene		1.98	0.927	1.03	ug/kg	1.0					
Trichloroethylene		3.83	0.309	1.03	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.309	1.03	ug/kg	1.0					
Vinyl Acetate	U	ND	2.16	5.15	ug/kg	1.0					
Vinyl chloride	U	ND	0.412	1.03	ug/kg	1.0					
Xylenes (TOTAL)	J	1.56	0.721	2.06	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.24	10.3	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.206	1.03	ug/kg	1.0					
trans-1,3-Dichloropropylene		1.08	0.309	1.03	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.515	5.15	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0935 135040 2

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Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-13

Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	88.1	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	96.1	(60.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	102.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes.

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

L indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

Indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit.

* indicates that the analyte was not detected at a concentration greater than the detection limit; † indicates that a quality control analyte recovery is outside of specified acceptance criteria.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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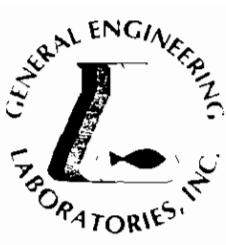
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.206	1.03	ug/kg	1.0					
Chloroethane	U	ND	0.309	1.03	ug/kg	1.0	TCL	11/02/98	1943	135040	1
Chloroform	U	ND	0.103	1.03	ug/kg	1.0					
Chloroprene	U	ND	10.3	20.6	ug/kg	1.0					
Dibromomethane	U	ND	0.206	1.03	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.103	1.03	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.24	1.24	ug/kg	1.0					
Ethylbenzene	U	ND	0.309	1.03	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.49	10.3	ug/kg	1.0					
Methacrylonitrile	U	ND	0.927	5.15	ug/kg	1.0					
Methyl Bromide	U	ND	0.309	1.03	ug/kg	1.0					
Methyl Chloride	U	ND	0.206	1.03	ug/kg	1.0					
Methyl Iodide	J	0.968	0.618	5.15	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.412	5.15	ug/kg	1.0					
Methylene Chloride		1.75	1.44	1.44	ug/kg	1.0					
Propionitrile	U	ND	3.50	10.3	ug/kg	1.0					
Styrene	U	ND	0.309	1.03	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.412	1.03	ug/kg	1.0					
Toluene		1.98	0.927	1.03	ug/kg	1.0					
Trichloroethylene		3.83	0.309	1.03	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.309	1.03	ug/kg	1.0					
Vinyl Acetate	U	ND	2.16	5.15	ug/kg	1.0					
Vinyl chloride	U	ND	0.412	1.03	ug/kg	1.0					
Xylenes (TOTAL)	J	1.56	0.721	2.06	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.24	10.3	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.206	1.03	ug/kg	1.0					
trans-1,3-Dichloropropylene		1.08	0.309	1.03	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.515	5.15	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0935 135040 2

Comments:



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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Sample ID	: 99SPORT0021-13									
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch M

Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	88.1	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	96.1	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	102.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Sample ID	: 99SPORT0021-14
Lab ID	: 9810885-14
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.199	1.00	ug/kg	1.0	TCL	11/03/98	1644	135040	1
1,1,1-Trichloroethane	U	ND	0.0994	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.596	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.298	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0994	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.298	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.398	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.31	0.398	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.199	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.497	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.199	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.199	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0994	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0994	1.00	ug/kg	1.0					
2-Butanone	J	3.23	3.18	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.78	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.08	5.00	ug/kg	1.0					
Acetone	U	ND	10.2	10.2	ug/kg	1.0					
Aceronitrile	U	ND	0.994	25.0	ug/kg	1.0					
Acrolein	U	ND	4.57	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.88	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.398	5.00	ug/kg	1.0					
Benzene	U	ND	0.497	1.00	ug/kg	1.0					
Bromoform	U	ND	0.298	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.41	0.298	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.497	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.298	1.00	ug/kg	1.0					

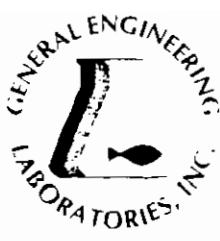
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SC	10120	10582
TN	02934	02934

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

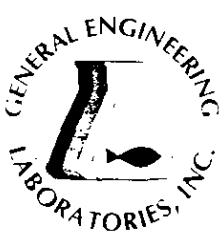
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.199	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.298	1.00	ug/kg	1.0	TCL	11/03/98	1644	135040	1
Chloroform	U	ND	0.0994	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.94	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.199	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0994	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.19	1.19	ug/kg	1.0					
Ethylbenzene	U	ND	0.298	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.26	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.895	5.00	ug/kg	1.0					
Methyl Bromide	J	0.626	0.298	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.199	1.00	ug/kg	1.0					
Methyl Iodide	J	0.984	0.596	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.398	5.00	ug/kg	1.0					
Methylene Chloride		1.95	1.39	1.39	ug/kg	1.0					
Propionitrile	U	ND	3.38	10.0	ug/kg	1.0					
Styrene	U	ND	0.298	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.398	1.00	ug/kg	1.0					
Toluene	U	ND	0.895	1.00	ug/kg	1.0					
Trichloroethylene	J	0.596	0.298	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.298	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.09	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.398	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.875	0.696	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.06	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.199	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.298	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.497	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0941 135040 2

Comments:



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-14

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	85.5	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	92.6	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	83.9	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By

Karen Blakeney



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID	: 99SPORT0021-15
Lab ID	: 9810885-15
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.202	1.01	ug/kg	1.0	TCL	11/02/98	2040	135040	1
1,1,1-Trichloroethane	U	ND	0.101	1.01	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.606	1.01	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.303	1.01	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.101	1.01	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.303	1.01	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.404	1.01	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.20	0.404	1.01	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.505	1.01	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.101	1.01	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.101	1.01	ug/kg	1.0					
2-Butanone	J	3.47	3.23	5.05	ug/kg	1.0					
2-Hexanone	U	ND	2.83	5.05	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.13	5.05	ug/kg	1.0					
Acetone		24.0	10.4	10.4	ug/kg	1.0					
Acetonitrile	U	ND	1.01	25.3	ug/kg	1.0					
Acrolein	U	ND	4.65	10.1	ug/kg	1.0					
Acrylonitrile	U	ND	3.94	10.1	ug/kg	1.0					
Allyl Chloride	U	ND	0.404	5.05	ug/kg	1.0					
Benzene	U	ND	0.505	1.01	ug/kg	1.0					
Bromoform	U	ND	0.303	1.01	ug/kg	1.0					
Carbon Disulfide	J	1.31	0.303	5.05	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.505	1.01	ug/kg	1.0					
Chlorobenzene	U	ND	0.303	1.01	ug/kg	1.0					

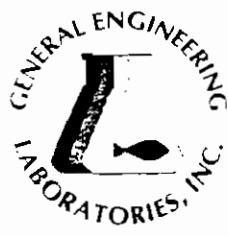
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9810885-15

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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106
 Contact: Mr. Bill Hiers
 Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

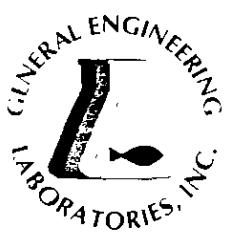
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.202	1.01	ug/kg	1.0					
Chloroethane	U	ND	0.303	1.01	ug/kg	1.0	TCL	11/02/98	2040	135040	1
Chloroform	U	ND	0.101	1.01	ug/kg	1.0					
Chloroprene	U	ND	10.1	20.2	ug/kg	1.0					
Dibromomethane	U	ND	0.202	1.01	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.101	1.01	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.21	1.21	ug/kg	1.0					
Ethylbenzene	U	ND	0.303	1.01	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.36	10.1	ug/kg	1.0					
Methacrylonitrile	U	ND	0.909	5.05	ug/kg	1.0					
Methyl Bromide	U	ND	0.303	1.01	ug/kg	1.0					
Methyl Chloride	U	ND	0.202	1.01	ug/kg	1.0					
Methyl Iodide	J	0.828	0.606	5.05	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.404	5.05	ug/kg	1.0					
Methylene Chloride		3.00	1.41	1.41	ug/kg	1.0					
Propionitrile	U	ND	3.43	10.1	ug/kg	1.0					
Styrene	U	ND	0.303	1.01	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.404	1.01	ug/kg	1.0					
Toluene	U	ND	0.909	1.01	ug/kg	1.0					
Trichloroethylene	J	0.980	0.303	1.01	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.303	1.01	ug/kg	1.0					
Vinyl Acetate	U	ND	2.12	5.05	ug/kg	1.0					
Vinyl chloride	U	ND	0.404	1.01	ug/kg	1.0					
Xylenes (TOTAL)	J	0.859	0.707	2.02	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.14	10.1	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.202	1.01	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.596	0.303	1.01	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.505	5.05	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0945 135040 2

Comments:



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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-15

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	92.7	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	93.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	80.4	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

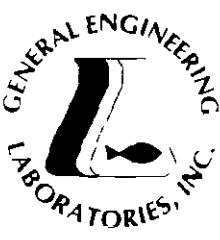
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 1 of 3

Sample ID : 99SPORT0021-16
Lab ID : 9810885-16
Matrix : Soil
Date Collected : 10/26/98
Date Received : 10/26/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.186	1.00	ug/kg	1.0	TCL	11/02/98	2109	135040	1
1,1,1-Trichloroethane	U	ND	0.0929	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.557	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.279	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0929	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.279	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.372	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.11	0.372	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.186	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.465	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.186	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.186	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0929	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0929	1.00	ug/kg	1.0					
2-Butanone	U	ND	2.97	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.60	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.88	5.00	ug/kg	1.0					
Acetone	U	ND	9.57	9.57	ug/kg	1.0					
Acetonitrile	U	ND	0.929	25.0	ug/kg	1.0					
Acrolein	U	ND	4.27	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.62	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.372	5.00	ug/kg	1.0					
Benzene	U	ND	0.465	1.00	ug/kg	1.0					
Bromoform	U	ND	0.279	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.19	0.279	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.465	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.279	1.00	ug/kg	1.0					

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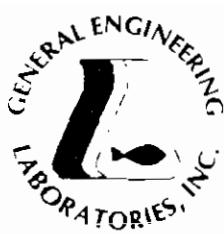
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STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachmen-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 2 of 3

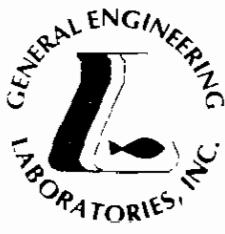
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.186	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.279	1.00	ug/kg	1.0	TCL	11/02/98	2109	135040	1
Chloroform	U	ND	0.0929	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.29	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.186	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0929	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.11	1.11	ug/kg	1.0					
Ethylbenzene	U	ND	0.279	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.85	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.836	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.279	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.186	1.00	ug/kg	1.0					
Methyl Iodide	J	0.762	0.557	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.372	5.00	ug/kg	1.0					
Methylene Chloride		1.43	1.30	1.30	ug/kg	1.0					
Propionitrile	U	ND	3.16	10.0	ug/kg	1.0					
Styrene	U	ND	0.279	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.372	1.00	ug/kg	1.0					
Toluene	U	ND	0.836	1.00	ug/kg	1.0					
Trichloroethylene		1.10	0.279	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.279	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	1.95	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.372	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	1.06	0.650	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.73	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.186	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	J	0.632	0.279	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.465	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0950 135040 2

Comments:



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 04, 1998

Page 3 of 3

Sample ID : 99SPORT0021-16

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	92.9	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	94.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	82.0	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 1 of 3

Sample ID : 99SPORT0021-17
Lab ID : 9810885-17
Matrix : Soil
Date Collected : 10/26/98
Date Received : 10/26/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.202	1.01	ug/kg	1.0	TCL	11/04/98	1424	135135	1
1,1,1-Trichloroethane	U	ND	0.101	1.01	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.606	1.01	ug/kg	1.0					
1,1,2-Trichloroethane	J	0.818	0.303	1.01	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.101	1.01	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.303	1.01	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.404	1.01	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.38	0.404	1.01	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.505	1.01	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-cis-Dichloroethylene	J	0.576	0.101	1.01	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.101	1.01	ug/kg	1.0					
2-Butanone	J	3.78	3.23	5.05	ug/kg	1.0					
2-Hexanone	U	ND	2.83	5.05	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.13	5.05	ug/kg	1.0					
Acetone		22.9	10.4	10.4	ug/kg	1.0					
Acetonitrile	U	ND	1.01	25.3	ug/kg	1.0					
Acrolein	U	ND	4.65	10.1	ug/kg	1.0					
Acrylonitrile	U	ND	3.94	10.1	ug/kg	1.0					
Allyl Chloride	U	ND	0.404	5.05	ug/kg	1.0					
Benzene		1.93	0.505	1.01	ug/kg	1.0					
Bromoform	U	ND	0.303	1.01	ug/kg	1.0					
Carbon Disulfide	J	3.31	0.303	5.05	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.505	1.01	ug/kg	1.0					
Chlorobenzene	U	ND	0.303	1.01	ug/kg	1.0					

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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.202	1.01	ug/kg	1.0					
Chloroethane	U	ND	0.303	1.01	ug/kg	1.0	TCL	11/04/98	1424	135135	1
Chloroform	U	ND	0.101	1.01	ug/kg	1.0					
Chloroprene	U	ND	10.1	20.2	ug/kg	1.0					
Dibromomethane	U	ND	0.202	1.01	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.101	1.01	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.21	1.21	ug/kg	1.0					
Ethylbenzene	U	ND	0.303	1.01	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.36	10.1	ug/kg	1.0					
Methacrylonitrile	U	ND	0.909	5.05	ug/kg	1.0					
Methyl Bromide	U	ND	0.303	1.01	ug/kg	1.0					
Methyl Chloride	U	ND	0.202	1.01	ug/kg	1.0					
Methyl Iodide	J	1.20	0.606	5.05	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.404	5.05	ug/kg	1.0					
Methylene Chloride	U	ND	1.41	1.41	ug/kg	1.0					
Propionitrile	U	ND	3.43	10.1	ug/kg	1.0					
Styrene	U	ND	0.303	1.01	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.404	1.01	ug/kg	1.0					
Toluene		2.06	0.909	1.01	ug/kg	1.0					
Trichloroethylene		1060	16.1	53.7	ug/kg	53.	TCL	11/04/98	1744	135135	1
Trichlorofluoromethane	U	ND	0.303	1.01	ug/kg	1.0	TCL	11/04/98	1424	135135	1
Vinyl Acetate	U	ND	2.12	5.05	ug/kg	1.0					
Vinyl chloride	U	ND	0.404	1.01	ug/kg	1.0					
Xylenes (TOTAL)	J	1.86	0.707	2.02	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.14	10.1	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.202	1.01	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.303	1.01	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.505	5.05	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 0956 135135 2

Comments:



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 3 of 3

Sample ID : 99SPORT0021-17

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
BromoFluorobenzene	APP 9 VOA-8260B	57.6	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	96.5	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	81.7	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

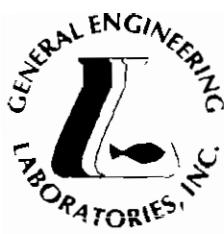
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By

Karen Blakeney



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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 1 of 3

Sample ID	:	99SPORT0021-18
Lab ID	:	9810885-18
Matrix	:	Soil
Date Collected	:	10/26/98
Date Received	:	10/26/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.230	1.15	ug/kg	1.0	TCL	11/03/98	1741	135135	1
1,1,1-Trichloroethane	U	ND	0.115	1.15	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.690	1.15	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.345	1.15	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.115	1.15	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.345	1.15	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.460	1.15	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.43	0.460	1.15	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.230	1.15	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.575	1.15	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.230	1.15	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.230	1.15	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.115	1.15	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.115	1.15	ug/kg	1.0					
2-Butanone	U	ND	3.68	5.75	ug/kg	1.0					
2-Hexanone	U	ND	3.22	5.75	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.57	5.75	ug/kg	1.0					
Acetone	U	ND	11.8	11.8	ug/kg	1.0					
Acetonitrile	U	ND	1.15	28.8	ug/kg	1.0					
Acrolein	U	ND	5.29	11.5	ug/kg	1.0					
Acrylonitrile	U	ND	4.49	11.5	ug/kg	1.0					
Allyl Chloride	U	ND	0.460	5.75	ug/kg	1.0					
Benzene	U	ND	0.575	1.15	ug/kg	1.0					
Bromoform	U	ND	0.345	1.15	ug/kg	1.0					
Carbon Disulfide	J	1.54	0.345	5.75	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.575	1.15	ug/kg	1.0					
Chlorobenzene	U	ND	0.345	1.15	ug/kg	1.0					

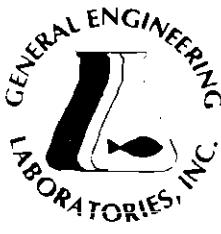
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9810885-18



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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 05, 1998

Page 2 of 3

Sample ID : 99SPORT0021-18

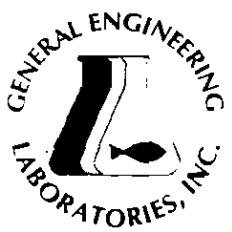
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.230	1.15	ug/kg	1.0					
Chloroethane	U	ND	0.345	1.15	ug/kg	1.0	TCL	11/03/98	1741	135135	1
Chloroform	U	ND	0.115	1.15	ug/kg	1.0					
Chloroprene	U	ND	11.5	23.0	ug/kg	1.0					
Dibromomethane	U	ND	0.230	1.15	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.115	1.15	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.38	1.38	ug/kg	1.0					
Ethylbenzene	U	ND	0.345	1.15	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.25	11.5	ug/kg	1.0					
Methacrylonitrile	U	ND	1.04	5.75	ug/kg	1.0					
Methyl Bromide	U	ND	0.345	1.15	ug/kg	1.0					
Methyl Chloride	U	ND	0.230	1.15	ug/kg	1.0					
Methyl Iodide	J	1.15	0.690	5.75	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.460	5.75	ug/kg	1.0					
Methylene Chloride	U	ND	1.61	1.61	ug/kg	1.0					
Propionitrile	U	ND	3.91	11.5	ug/kg	1.0					
Styrene	U	ND	0.345	1.15	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.460	1.15	ug/kg	1.0					
Toluene	U	ND	1.04	1.15	ug/kg	1.0					
Trichloroethylene	U	ND	0.345	1.15	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.345	1.15	ug/kg	1.0					
Vinyl Acetate	U	ND	2.42	5.75	ug/kg	1.0					
Vinyl chloride	U	ND	0.460	1.15	ug/kg	1.0					
Xylenes (TOTAL)	J	2.08	0.805	2.30	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.85	11.5	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.230	1.15	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.345	1.15	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.575	5.75	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 1001 135135 2

Comments:



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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 3 of 3

Sample ID : 99SPORT0021-18

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	88.8	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	93.6	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	85.6	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

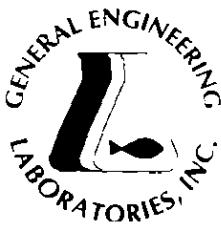
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By



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FL	E87156/87294	E87472/874.
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 1 of 3

Sample ID	: 99SPORT0021-19
Lab ID	: 9810885-19
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.202	1.01	ug/kg	1.0	TCL	11/03/98	1809	135135	1
1,1,1-Trichloroethane	U	ND	0.101	1.01	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.606	1.01	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.303	1.01	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.101	1.01	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.303	1.01	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.404	1.01	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.30	0.404	1.01	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.505	1.01	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.202	1.01	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.101	1.01	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.101	1.01	ug/kg	1.0					
2-Butanone	U	ND	3.23	5.05	ug/kg	1.0					
2-Hexanone	U	ND	2.83	5.05	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.13	5.05	ug/kg	1.0					
Acetone		18.3	10.4	10.4	ug/kg	1.0					
Acetonitrile	U	ND	1.01	25.3	ug/kg	1.0					
Acrolein	U	ND	4.65	10.1	ug/kg	1.0					
Acrylonitrile	U	ND	3.94	10.1	ug/kg	1.0					
Allyl Chloride	U	ND	0.404	5.05	ug/kg	1.0					
Benzene	J	0.626	0.505	1.01	ug/kg	1.0					
Bromoform	U	ND	0.303	1.01	ug/kg	1.0					
Carbon Disulfide	J	1.41	0.303	5.05	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.505	1.01	ug/kg	1.0					
Chlorobenzene	U	ND	0.303	1.01	ug/kg	1.0					

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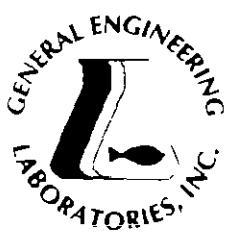
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.202	1.01	ug/kg	1.0					
Chloroethane	U	ND	0.303	1.01	ug/kg	1.0	TCL	11/03/98	1809	135135	1
Chloroform	U	ND	0.101	1.01	ug/kg	1.0					
Chloroprene	U	ND	10.1	20.2	ug/kg	1.0					
Dibromomethane	U	ND	0.202	1.01	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.101	1.01	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.21	1.21	ug/kg	1.0					
Ethylbenzene	U	ND	0.303	1.01	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.36	10.1	ug/kg	1.0					
Methacrylonitrile	U	ND	0.909	5.05	ug/kg	1.0					
Methyl Bromide	J	0.505	0.303	1.01	ug/kg	1.0					
Methyl Chloride	U	ND	0.202	1.01	ug/kg	1.0					
Methyl Iodide	J	1.06	0.606	5.05	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.404	5.05	ug/kg	1.0					
Methylene Chloride		2.26		1.41	ug/kg	1.0					
Propionitrile	U	ND	3.43	10.1	ug/kg	1.0					
Styrene	U	ND	0.303	1.01	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.404	1.01	ug/kg	1.0					
Toluene	U	ND	0.909	1.01	ug/kg	1.0					
Trichloroethylene		3.36	0.303	1.01	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.303	1.01	ug/kg	1.0					
Vinyl Acetate	U	ND	2.12	5.05	ug/kg	1.0					
Vinyl chloride	U	ND	0.404	1.01	ug/kg	1.0					
Xylenes (TOTAL)	J	1.72	0.707	2.02	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.14	10.1	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.202	1.01	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.303	1.01	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.505	5.05	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 1005 135135 2

Comments:





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STATE	GEL	EPI
FL	E87156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 3 of 3

Sample ID : 99SPORT0021-19

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											
Surrogate Recovery	Test	Percent %			Acceptable Limits						
Bromofluorobenzene	APP 9 VOA-8260B	91.8			(53.5 - 154.)						
Dibromofluoromethane	APP 9 VOA-8260B	93.9			(63.4 - 136.)						
Toluene-d8	APP 9 VOA-8260B	83.4			(72.1 - 137.)						

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
Reviewed By



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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106
 Contact: Mr. Bill Hiers
 Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 1 of 3

Sample ID	: 99SPORT0021-20
Lab ID	: 9810885-20
Matrix	: Soil
Date Collected	: 10/26/98
Date Received	: 10/26/98
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.189	1.00	ug/kg	1.0	TCL	11/04/98	1452	135135	1
1,1,1-Trichloroethane	U	ND	0.0943	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.566	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.283	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0943	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.283	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.377	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.12	0.377	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.189	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.472	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.189	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.189	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0943	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0943	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.02	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.64	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.92	5.00	ug/kg	1.0					
Acetone	U	ND	9.71	9.71	ug/kg	1.0					
Acetonitrile	U	ND	0.943	25.0	ug/kg	1.0					
Acrolein	U	ND	4.34	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.68	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.377	5.00	ug/kg	1.0					
Benzene	U	ND	0.472	1.00	ug/kg	1.0					
Bromoform	U	ND	0.283	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.12	0.283	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.472	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.283	1.00	ug/kg	1.0					

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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 2 of 3

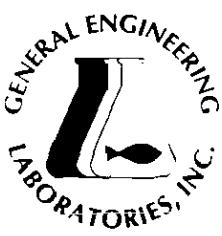
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.189	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.283	1.00	ug/kg	1.0	TCL	11/04/98	1452	135135	1
Chloroform	U	ND	0.0943	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.43	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.189	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0943	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.13	1.13	ug/kg	1.0					
Ethylbenzene	U	ND	0.283	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.94	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.849	5.00	ug/kg	1.0					
Methyl Bromide		1.01	0.283	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.189	1.00	ug/kg	1.0					
Methyl Iodide	J	1.09	0.566	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.377	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.32	1.32	ug/kg	1.0					
Propionitrile	U	ND	3.21	10.0	ug/kg	1.0					
Styrene	U	ND	0.283	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.377	1.00	ug/kg	1.0					
Toluene	U	ND	0.849	1.00	ug/kg	1.0					
Trichloroethylene		1.04	0.283	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.283	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	1.98	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.377	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	1.58	0.660	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.80	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.189	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.283	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.472	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 1009 135135 2

Comments:



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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 05, 1998

Page 3 of 3

Sample ID : 99SPORTD021-20

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	82.4	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	104.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	83.7	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By

Karen Blakeney





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NC	233	
SC	10120	10582
TN	02934	02934

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 1 of 3

Sample ID : 99SPORT0021-21
Lab ID : 9810885-21
Matrix : Soil
Date Collected : 10/26/98
Date Received : 10/26/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.236	1.18	ug/kg	1.0	TCL	11/04/98	1521	135135	1
1,1,1-Trichloroethane	U	ND	0.118	1.18	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.708	1.18	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.354	1.18	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.118	1.18	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.354	1.18	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.472	1.18	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.29	0.472	1.18	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.236	1.18	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.590	1.18	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.236	1.18	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.236	1.18	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.118	1.18	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.118	1.18	ug/kg	1.0					
2-Butanone	U	ND	3.78	5.90	ug/kg	1.0					
2-Hexanone	U	ND	3.30	5.90	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.66	5.90	ug/kg	1.0					
Acetone	U	ND	12.2	12.2	ug/kg	1.0					
Acetonitrile	U	ND	1.18	29.5	ug/kg	1.0					
Acrolein	U	ND	5.43	11.8	ug/kg	1.0					
Acrylonitrile	U	ND	4.60	11.8	ug/kg	1.0					
Allyl Chloride	U	ND	0.472	5.90	ug/kg	1.0					
Benzene	U	ND	0.590	1.18	ug/kg	1.0					
Bromoform	U	ND	0.354	1.18	ug/kg	1.0					
Carbon Disulfide	J	1.24	0.354	5.90	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.590	1.18	ug/kg	1.0					
Chlorobenzene	U	ND	0.354	1.18	ug/kg	1.0					

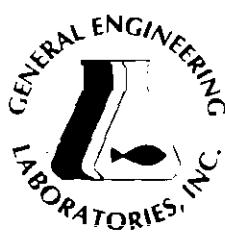
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106
 Contact: Mr. Bill Hiers
 Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 2 of 3

Sample ID : 99SPORT0021-21

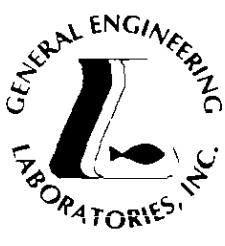
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.236	1.18	ug/kg	1.0					
Chloroethane	U	ND	0.354	1.18	ug/kg	1.0	TCL	11/04/98	1521	135135	1
Chloroform	U	ND	0.118	1.18	ug/kg	1.0					
Chloroprene	U	ND	11.8	23.6	ug/kg	1.0					
Dibromomethane	U	ND	0.236	1.18	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.118	1.18	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.42	1.42	ug/kg	1.0					
Ethylbenzene	U	ND	0.354	1.18	ug/kg	1.0					
Isobutyl Alcohol	U	ND	7.43	11.8	ug/kg	1.0					
Methacrylonitrile	U	ND	1.06	5.90	ug/kg	1.0					
Methyl Bromide	U	ND	0.354	1.18	ug/kg	1.0					
Methyl Chloride	U	ND	0.236	1.18	ug/kg	1.0					
Methyl Iodide	J	1.20	0.708	5.90	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.472	5.90	ug/kg	1.0					
Methylene Chloride	U	ND	1.65	1.65	ug/kg	1.0					
Propionitrile	U	ND	4.01	11.8	ug/kg	1.0					
Styrene	U	ND	0.354	1.18	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.472	1.18	ug/kg	1.0					
Toluene	U	ND	1.06	1.18	ug/kg	1.0					
Trichloroethylene		3.82	0.354	1.18	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.354	1.18	ug/kg	1.0					
Vinyl Acetate	U	ND	2.48	5.90	ug/kg	1.0					
Vinyl chloride	U	ND	0.472	1.18	ug/kg	1.0					
Xylenes (TOTAL)	J	0.979	0.826	2.36	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	6.01	11.8	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.236	1.18	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.354	1.18	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.590	5.90	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 1013 135135 2

Comments:



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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
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Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

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Page 3 of 3

Sample ID : 99SPORT0021-21

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	74.4	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	93.0	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	74.6	(72.1 - 137.)

M = Method	Method-Description
------------	--------------------

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
Reviewed By



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Laboratory Certifications		
STATE	GEL	EPI
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 1 of 3

Sample ID : 99SPORT0021-22
Lab ID : 9810885-22
Matrix : Soil
Date Collected : 10/26/98
Date Received : 10/26/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.198	1.00	ug/kg	1.0	TCL	11/04/98	1229	135135	1
1,1,1-Trichloroethane	U	ND	0.0990	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.594	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.297	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0990	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.297	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.396	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.22	0.396	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.198	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.495	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.198	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.198	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	J	0.871	0.0990	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0990	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.17	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.77	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.07	5.00	ug/kg	1.0					
Acetone		15.4	10.2	10.2	ug/kg	1.0					
Acetonitrile	U	ND	0.990	25.0	ug/kg	1.0					
Acrolein	U	ND	4.55	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.86	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.396	5.00	ug/kg	1.0					
Benzene		1.44	0.495	1.00	ug/kg	1.0					
Bromoform	U	ND	0.297	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.96	0.297	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.495	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.297	1.00	ug/kg	1.0					

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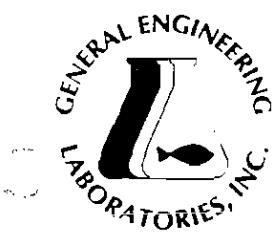
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

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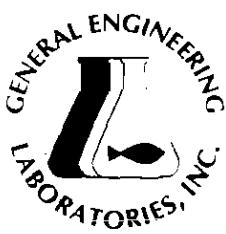
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.198	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.297	1.00	ug/kg	1.0	TCL	11/04/98	1229	135135	1
Chloroform	U	ND	0.0990	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.90	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.198	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0990	1.00	ug/kg	1.0					
Dichlorotifluoromethane	U	ND	1.19	1.19	ug/kg	1.0					
Ethylbenzene	U	ND	0.297	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.24	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.891	5.00	ug/kg	1.0					
Methyl Bromide	J	0.554	0.297	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.198	1.00	ug/kg	1.0					
Methyl Iodide	J	0.941	0.594	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.396	5.00	ug/kg	1.0					
Methylene Chloride	U	ND	1.39	1.39	ug/kg	1.0					
Propionitrile	U	ND	3.37	10.0	ug/kg	1.0					
Styrene	U	ND	0.297	1.00	ug/kg	1.0					
Tetrachloroethylene	J	0.554	0.396	1.00	ug/kg	1.0					
Toluene		1.05	0.891	1.00	ug/kg	1.0					
Trichloroethylene		44.5	0.297	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.297	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.08	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.396	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	1.50	0.693	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.04	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.198	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.297	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.495	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 1017 135135 2

Comments:



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 3 of 3

Sample ID : 99SPORT0021-22

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	67.9	(53.5 - 154)
Dibromofluoromethane	APP 9 VOA-8260B	83.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	72.9	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
Reviewed By



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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 1 of 3

Sample ID	:	99SPORT0021-23
Lab ID	:	9810885-23
Matrix	:	Soil
Date Collected	:	10/26/98
Date Received	:	10/26/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.188	1.00	ug/kg	1.0	TCL	11/04/98	1258	135135	1
1,1,1-Trichloroethane	U	ND	0.0940	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.564	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.282	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0940	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.282	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.376	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.376	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.188	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.470	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.188	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.188	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene		4.43	0.0940	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0940	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.01	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.63	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	2.91	5.00	ug/kg	1.0					
Acetone		11.8	9.68	9.68	ug/kg	1.0					
Acetonitrile	U	ND	0.940	25.0	ug/kg	1.0					
Acrolein	U	ND	4.32	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.67	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.376	5.00	ug/kg	1.0					
Benzene	J	0.564	0.470	1.00	ug/kg	1.0					
Bromoform	U	ND	0.282	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.42	0.282	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.470	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.282	1.00	ug/kg	1.0					

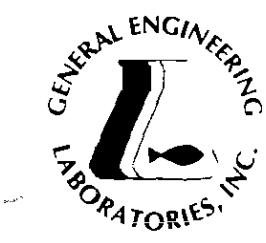
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9810885-23

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FL	E87156/E87294	E87472/E874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 2 of 3

Sample ID : 99SPORT0021-23

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.188	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.282	1.00	ug/kg	1.0	TCL	11/04/98	1258	135135	1
Chloroform	U	ND	0.0940	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.40	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.188	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0940	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.13	1.13	ug/kg	1.0					
Ethylbenzene	U	ND	0.282	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	5.92	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.846	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.282	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.188	1.00	ug/kg	1.0					
Methyl Iodide	J	0.902	0.564	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.376	5.00	ug/kg	1.0					
Methylene Chloride		1.64	1.32	1.32	ug/kg	1.0					
Propionitrile	U	ND	3.20	10.0	ug/kg	1.0					
Styrene	U	ND	0.282	1.00	ug/kg	1.0					
Tetrachloroethylene		19.3	0.376	1.00	ug/kg	1.0					
Toluene	U	ND	0.846	1.00	ug/kg	1.0					
Trichloroethylene		981	29.3	97.7	ug/kg	100	TCL	11/05/98	1002	135135	1
Trichlorofluoromethane	U	ND	0.282	1.00	ug/kg	1.0	TCL	11/04/98	1258	135135	1
Vinyl Acetate	U	ND	1.97	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.376	1.00	ug/kg	1.0					
Xylenes (TOTAL)		2.33	0.658	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	4.78	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.188	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.282	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.470	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 1020 135135 2

Comments:



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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 05, 1998

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Sample ID : 99SPORT0021-23

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	80.7	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	83.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	73.3	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By

Karen Blakeney





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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

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Sample ID	:	99SPORT0021-24
Lab ID	:	9810885-24
Matrix	:	Soil
Date Collected	:	10/26/98
Date Received	:	10/26/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.198	1.00	ug/kg	1.0	TCL	11/04/98	1618	135135	1
1,1,1-Trichloroethane	U	ND	0.0988	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.593	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	J	0.494	0.296	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0988	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.296	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.395	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.29	0.395	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.198	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.494	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.198	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.198	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0988	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0988	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.16	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.77	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.06	5.00	ug/kg	1.0					
Acetone	U	ND	10.2	10.2	ug/kg	1.0					
Acetonitrile	U	ND	0.988	25.0	ug/kg	1.0					
Acrolein	U	ND	4.54	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.85	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.395	5.00	ug/kg	1.0					
Benzene	J	0.583	0.494	1.00	ug/kg	1.0					
Bromoform	U	ND	0.296	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.17	0.296	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.494	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.296	1.00	ug/kg	1.0					

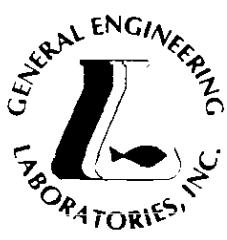
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 2 of 3

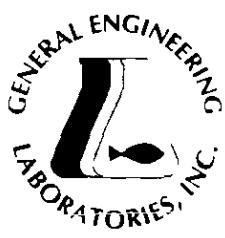
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.198	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.296	1.00	ug/kg	1.0	TCL	11/04/98	1618	135135	1
Chloroform	U	ND	0.0988	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.88	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.198	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0988	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.19	1.19	ug/kg	1.0					
Ethylbenzene	U	ND	0.296	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.22	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.889	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.296	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.198	1.00	ug/kg	1.0					
Methyl Iodide	J	1.07	0.593	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.395	5.00	ug/kg	1.0					
Methylene Chloride		5.35	1.38	1.38	ug/kg	1.0					
Propionitrile	U	ND	3.36	10.0	ug/kg	1.0					
Styrene	U	ND	0.296	1.00	ug/kg	1.0					
Tetrachloroethylene		1.01	0.395	1.00	ug/kg	1.0					
Toluene	U	ND	0.889	1.00	ug/kg	1.0					
Trichloroethylene		158	15.2	50.5	ug/kg	51.	TCL	11/05/98	1030	135135	1
Trichlorofluoromethane	U	ND	0.296	1.00	ug/kg	1.0	TCL	11/04/98	1618	135135	1
Vinyl Acetate	U	ND	2.07	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.395	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.978	0.692	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.03	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.198	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.296	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.494	5.00	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 1024 135135 2

Comments:



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FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 3 of 3

Sample ID : 99SPORT0021-24

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	83.4	(53.5 - 154.)
Di bromofluoromethane	APP 9 VOA-8260B	95.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	80.7	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

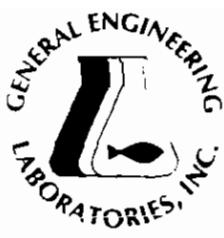
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
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STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: November 05, 1998

Page 1 of 3

Sample ID	:	99SPORT0021-25
Lab ID	:	9810885-25
Matrix	:	Soil
Date Collected	:	10/26/98
Date Received	:	10/26/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.197	1.00	ug/kg	1.0	TCL	11/04/98	1550	135135	1
1,1,1-Trichloroethane	U	ND	0.0984	1.00	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.590	1.00	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.295	1.00	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.0984	1.00	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.295	1.00	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.394	1.00	ug/kg	1.0					
1,2-Dibromo-3-chloropropane		1.20	0.394	1.00	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.197	1.00	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.492	1.00	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.197	1.00	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.197	1.00	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.0984	1.00	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.0984	1.00	ug/kg	1.0					
2-Butanone	U	ND	3.15	5.00	ug/kg	1.0					
2-Hexanone	U	ND	2.76	5.00	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.05	5.00	ug/kg	1.0					
Acetone	U	ND	10.1	10.1	ug/kg	1.0					
Acetonitrile	U	ND	0.984	25.0	ug/kg	1.0					
Acrolein	U	ND	4.53	10.0	ug/kg	1.0					
Acrylonitrile	U	ND	3.84	10.0	ug/kg	1.0					
Allyl Chloride	U	ND	0.394	5.00	ug/kg	1.0					
Benzene	U	ND	0.492	1.00	ug/kg	1.0					
Bromoform	U	ND	0.295	1.00	ug/kg	1.0					
Carbon Disulfide	J	1.20	0.295	5.00	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.492	1.00	ug/kg	1.0					
Chlorobenzene	U	ND	0.295	1.00	ug/kg	1.0					

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9810885-25

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Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874:
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 2 of 3

Sample ID : 99SPORT0021-25

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.197	1.00	ug/kg	1.0					
Chloroethane	U	ND	0.295	1.00	ug/kg	1.0	TCL	11/04/98	1550	135135	1
Chloroform	J	0.502	0.0984	1.00	ug/kg	1.0					
Chloroprene	U	ND	9.84	20.0	ug/kg	1.0					
Dibromomethane	U	ND	0.197	1.00	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.0984	1.00	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.18	1.18	ug/kg	1.0					
Ethylbenzene	U	ND	0.295	1.00	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.20	10.0	ug/kg	1.0					
Methacrylonitrile	U	ND	0.886	5.00	ug/kg	1.0					
Methyl Bromide	U	ND	0.295	1.00	ug/kg	1.0					
Methyl Chloride	U	ND	0.197	1.00	ug/kg	1.0					
Methyl Iodide	J	1.27	0.590	5.00	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.394	5.00	ug/kg	1.0					
Methylene Chloride		4.06	1.38	1.38	ug/kg	1.0					
Propionitrile	U	ND	3.35	10.0	ug/kg	1.0					
Styrene	U	ND	0.295	1.00	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.394	1.00	ug/kg	1.0					
Toluene	U	ND	0.886	1.00	ug/kg	1.0					
Trichloroethylene	U	ND	0.295	1.00	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.295	1.00	ug/kg	1.0					
Vinyl Acetate	U	ND	2.07	5.00	ug/kg	1.0					
Vinyl chloride	U	ND	0.394	1.00	ug/kg	1.0					
Xylenes (TOTAL)	J	0.797	0.689	2.00	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.01	10.0	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.197	1.00	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.295	1.00	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.492	5.00	ug/kg	1.0					

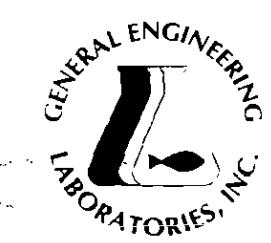
The following prep procedures were performed:

Volatiles 8260 High Level

TCL 10/27/98 1027 135135 2

Comments:





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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: November 05, 1998

Page 3 of 3

Sample ID : 99SPORT0021-25

Parameter **Qualifier** **Result** **DL** **RL** **Units** **DF** **Analyst Date** **Time** **Batch** **M**

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA 8260B	78.9	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	92.8	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	78.4	(72.1 - 137.)

M 1 **EPA 8260B**
M 2 **EPA 5035**

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By

QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9810885%

Report Date: November 05, 1998

Page 1 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Volatile Organics													
QCS57399		BLANK	135040										
1,1-Dichloroethylene						0.00	ug/kg						TCL 11/02/98 1325
Benzene						0.00	ug/kg						
Chlorobenzene						0.00	ug/kg						
Toluene						0.530	ug/kg						
Trichloroethylene						0.00	ug/kg						
*Bromofluorobenzene							ug/kg		94.3	(53.5 - 154.)			
*Dibromofluoromethane							ug/kg		89.2	(63.4 - 136.)			
*Toluene-d8							ug/kg		80.7	(72.1 - 137.)			
1,1,1,2-Tetrachloroethane						0.00	ug/kg						
1,1,1-Trichloroethane						0.00	ug/kg						
1,1,2,2-Tetrachloroethane						0.00	ug/kg						
1,1,2-Trichloroethane						0.00	ug/kg						
1,1-Dichloroethane						0.00	ug/kg						
1,2,3-Trichloropropane						1.23	ug/kg						
1,2-Dibromo-3-chloropropane						1.95	ug/kg						
1,2-Dibromoethane						0.00	ug/kg						
1,2-Dichlorobenzene						0.00	ug/kg						
1,2-Dichloroethane						0.00	ug/kg						
1,2-Dichloropropane						0.00	ug/kg						
1,2-cis-Dichloroethylene						0.00	ug/kg						
1,2-trans-Dichloroethylene						0.00	ug/kg						
2-Butanone						3.53	ug/kg						
2-Hexanone						2.05	ug/kg						
4-Methyl-2-pentanone						1.49	ug/kg						
Acetone						3.69	ug/kg						
Acetonitrile						0.00	ug/kg						
Acrolein						0.00	ug/kg						
Acrylonitrile						0.00	ug/kg						
Allyl Chloride						0.00	ug/kg						
Bromoform						0.00	ug/kg						
Carbon Disulfide						1.43	ug/kg						
Carbon Tetrachloride						0.00	ug/kg						
Chlorodibromomethane						0.00	ug/kg						
Chloroethane						0.00	ug/kg						
Chloroform						0.00	ug/kg						
Chloroprene						0.00	ug/kg						
Dibromomethane						0.00	ug/kg						
Dichlorobromomethane						0.00	ug/kg						

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9810885%

Report Date: November 05, 1998

Page 2 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Dichlorodifluoromethane						0.00	ug/kg				TCL	11/02/98	1325
Ethylbenzene						0.00	ug/kg						
Isobutyl Alcohol						0.00	ug/kg						
Methacrylonitrile						0.00	ug/kg						
Methyl Bromide						0.00	ug/kg						
Methyl Chloride						0.00	ug/kg						
Methyl Iodide						1.06	ug/kg						
Methyl Methacrylate						0.00	ug/kg						
Methylene Chloride						0.750	ug/kg						
Propionitrile						0.00	ug/kg						
Styrene						0.00	ug/kg						
Tetrachloroethylene						0.00	ug/kg						
Trichlorofluoromethane						0.00	ug/kg						
Vinyl Acetate						0.00	ug/kg						
Vinyl chloride						0.00	ug/kg						
Xylenes (TOTAL)						0.810	ug/kg						
bis(2-Chloromethyl)ether						0.00	ug/kg						
cis-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,4-Dichloro-2-butene						0.00	ug/kg						
QC557767		BLANK	135135										
1,1-Dichloroethylene						0.00	ug/kg				TCL	11/03/98	1343
Benzene						0.00	ug/kg						
Chlorobenzene						0.00	ug/kg						
Toluene						0.520	ug/kg						
Trichloroethylene						0.00	ug/kg						
*Bromofluorobenzene							ug/kg		92.9	(53.5 - 154.)			
*Dibromofluoromethane							ug/kg		98.4	(63.4 - 136.)			
*Toluene-d8							ug/kg		87.7	(72.1 - 137.)			
1,1,1,2-Tetrachloroethane						0.00	ug/kg						
1,1,1-Trichloroethane						0.00	ug/kg						
1,1,2,2-Tetrachloroethane						0.00	ug/kg						
1,1,2-Trichloroethane						0.00	ug/kg						
1,1-Dichloroethane						0.00	ug/kg						
1,2,3-Trichloropropane						0.00	ug/kg						
1,2-Dibromo-3-chloropropane						1.54	ug/kg						
1,2-Dibromoethane						0.00	ug/kg						
1,2-Dichlorobenzene						0.00	ug/kg						
1,2-Dichloroethane						0.00	ug/kg						
1,2-Dichloropropane						0.00	ug/kg						

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9810885%

Report Date: November 05, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
1,2-cis-Dichloroethylene						0.00	ug/kg				TCL	11/03/98	1343
1,2-trans-Dichloroethylene						0.00	ug/kg						
2-Butanone						1.76	ug/kg						
2-Hexanone						1.52	ug/kg						
4-Methyl-2-pentanone						0.960	ug/kg						
Acetone						0.00	ug/kg						
Acetonitrile						0.00	ug/kg						
Acrolein						0.00	ug/kg						
Acrylonitrile						0.00	ug/kg						
Allyl Chloride						0.00	ug/kg						
Bromoform						0.00	ug/kg						
Carbon Disulfide						1.32	ug/kg						
Carbon Tetrachloride						0.00	ug/kg						
Chlorodibromomethane						0.00	ug/kg						
Chloroethane						0.00	ug/kg						
Chloroform						0.590	ug/kg						
Chloroprene						0.00	ug/kg						
Dibromomethane						0.00	ug/kg						
Dichlorobromomethane						0.00	ug/kg						
Dichlorodifluoromethane						0.00	ug/kg						
Ethylbenzene						0.00	ug/kg						
Isobutyl Alcohol						0.00	ug/kg						
Methacrylonitrile						0.00	ug/kg						
Methyl Bromide						0.00	ug/kg						
Methyl Chloride						0.00	ug/kg						
Methyl Iodide						1.24	ug/kg						
Methyl Methacrylate						0.00	ug/kg						
Methylene Chloride						0.00	ug/kg						
Propionitrile						0.00	ug/kg						
Styrene						0.520	ug/kg						
Tetrachloroethylene						0.00	ug/kg						
Trichlorofluoromethane						0.00	ug/kg						
Vinyl Acetate						0.00	ug/kg						
Vinyl chloride						0.00	ug/kg						
Xylenes (TOTAL)						0.900	ug/kg						
bis(2-Chloromethyl)ether						0.00	ug/kg						
cis-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,4-Dichloro-2-butene						0.00	ug/kg						

QC557400

LCS 135040

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9810885%

Report Date: November 05, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
1,1-Dichloroethylene			50			52.5	ug/kg		105	(61.0 - 131.)	TCL	11/02/98	1252
Benzene			50			55.4	ug/kg		111	(64.0 - 126.)	TCL	11/02/98	1252
Chlorobenzene			50			54.8	ug/kg		110	(77.3 - 123.)			
Toluene			50			49.1	ug/kg		98.2	(70.4 - 130.)			
Trichloroethylene			50			52.8	ug/kg		106	(67.3 - 126.)			
*Bromofluorobenzene			50			48.1	ug/kg		96.2	(53.5 - 154.)			
*Dibromofluoromethane			50			48.3	ug/kg		96.6	(63.4 - 136.)			
*Toluene-d8			50			43.5	ug/kg		87.0	(72.1 - 137.)			
QC557768	LCS	135135											
1,1-Dichloroethylene			50			45.2	ug/kg		90.3	(61.0 - 131.)	TCL	11/03/98	1314
Benzene			50			50.8	ug/kg		102	(64.0 - 126.)			
Chlorobenzene			50			54.7	ug/kg		109	(77.3 - 123.)			
Toluene			50			47.0	ug/kg		94.1	(70.4 - 130.)			
Trichloroethylene			50			49.9	ug/kg		99.8	(67.3 - 126.)			
*Bromofluorobenzene			50			44.4	ug/kg		88.8	(53.5 - 154.)			
*Dibromofluoromethane			50			49.6	ug/kg		99.3	(63.4 - 136.)			
*Toluene-d8			50			42.1	ug/kg		84.2	(72.1 - 137.)			
QC557401	9810885-01PS	135040											
1,1-Dichloroethylene			50	0.00		51.5	ug/kg		103	(67.9 - 136.)	TCL	11/02/98	2138
Benzene			50	0.00		53.0	ug/kg		106	(62.2 - 131.)			
Chlorobenzene			50	0.00		50.4	ug/kg		101	(74.4 - 127.)			
Toluene			50	0.958		45.7	ug/kg		91.4	(67.0 - 143.)			
Trichloroethylene			50	1.62		49.0	ug/kg		95.2	(63.2 - 129.)			
*Bromofluorobenzene			50			41.4	ug/kg		82.8	(53.5 - 154.)			
*Dibromofluoromethane			50			44.2	ug/kg		88.5	(63.4 - 136.)			
*Toluene-d8			50			38.7	ug/kg		77.3	(72.1 - 137.)			
QC557769	9810885-19PS	135135											
1,1-Dichloroethylene			50	0.00		37.4	ug/kg		74.8	(67.9 - 136.)	TCL	11/04/98	1813
Benzene			50	0.629		43.1	ug/kg		85.0	(62.2 - 131.)			
Chlorobenzene			50	0.00		41.9	ug/kg		83.7	(74.4 - 127.)			
Toluene			50	0.822		40.4	ug/kg		80.8	(67.0 - 143.)			
Trichloroethylene			50	3.38		42.4	ug/kg		78.1	(63.2 - 129.)			
*Bromofluorobenzene			50			29.6	ug/kg		59.2	(53.5 - 154.)			
*Dibromofluoromethane			50			42.2	ug/kg		84.3	(63.4 - 136.)			
*Toluene-d8			50			36.5	ug/kg		72.9	(72.1 - 137.)			
QC557402	9810885-01PSD	135040											
1,1-Dichloroethylene			50	0.00		50.1	ug/kg	2.68	100	(0.00 - 36.6)	TCL	11/02/98	220
Benzene			50	0.00		51.5	ug/kg	2.95	103	(0.00 - 30.4)			
Chlorobenzene			50	0.00		49.7	ug/kg	1.50	99.3	(0.00 - 17.6)			
Toluene			50	0.958		45.2	ug/kg	1.14	90.4	(0.00 - 20.1)			

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9810885%

Report Date: November 05, 1998

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Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Trichloroethylene			50	1.62		48.8	ug/kg	0.358	94.9	(0.00 - 34.1)	TCL	11/02/98	2206
*Bromofluorobenzene			50			42.8	ug/kg		85.5	(53.5 - 154.)			
*Dibromofluoromethane			50			48.5	ug/kg		96.9	(63.4 - 136.)			
*Toluene-d8			50			41.1	ug/kg		82.2	(72.1 - 137.)			
QC557770	9810885-19PSD	135135											
1,1-Dichloroethylene			50	0.00		39.8	ug/kg	6.24	79.6	(0.00 - 36.6)	TCL	11/04/98	1841
Benzene			50	0.629		46.6	ug/kg	7.84	91.9	(0.00 - 30.4)			
Chlorobenzene			50	0.00		45.2	ug/kg	7.72	90.5	(0.00 - 17.6)			
Toluene			50	0.822		42.9	ug/kg	5.88	85.7	(0.00 - 20.1)			
Trichloroethylene			50	3.38		45.9	ug/kg	8.62	85.2	(0.00 - 34.1)			
*Bromofluorobenzene			50			34.6	ug/kg		69.2	(53.5 - 154.)			
*Dibromofluoromethane			50			43.5	ug/kg		91.1	(63.4 - 136.)			
*Toluene-d8			50			38.7	ug/kg		77.4	(72.1 - 137.)			

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when
sample concentration exceeds spike conc by a factor of 4 or more

General Engineering Laboratory, Inc.
2040 Savage Road
Charleston, South Carolina J7
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CHAIN OF CUSTODY RECORD

98109AR

Page 1 of 2

Client Name/Facility Name SPORT ENV DET / ASN				# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods												Use F or P in the boxes to indicate whether sample was filtered and/or preserved ←	CCL 36232	Remarks	
SAMPLE ID	DATE	TIME	WELL SOIL COMP GRAB		pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrate/Nitrite	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables				PCB's
1 995PORT0021-1	10/26/98	1100	X X 3						X											NBCK16650038 -02
2 995PORT0021-2	10/26/98	1110	X X 3						X											NBCK16650040 -02
3 995PORT0021-3	10/26/98	1110	X X 3						X											NBCK16650040 -02
4 995PORT0021-4	10/26/98	1120	X X 3						X											NBCK16650041 -02
5 995PORT0021-5	10/26/98	1130	X X 3						X											NBCK16650042 -01
6 995PORT0021-6	10/26/98	1140	X X 3						X											NBCK16650042 -02
7 995PORT0021-7	10/26/98	1150	X X 3						X											NBCK16650043 -01
8 995PORT0021-8	10/26/98	1200	X X 3						X											NBCK16650043 -02
9 995PORT0021-9	10/26/98	1210	X X 3						X											NBCK16650044 -01
10 995PORT0021-10	10/26/98	1215	X X 3						X											NBCK16650044 -02
11 995PORT0021-11	10/26/98	1225	X X 3						X											NBCK16650045 -01
12 995PORT0021-12	10/26/98	1230	X X 3						X											NBCK166500450)
13 995PORT0021-13	10/26/98	1235	X X 3						X											NBCK16650046 -01
Relinquished by:	Date:	Time:	Received by:													Relinquished by:	Date:	Time:	Received by:	
Jerry J. Lewis	10/26/98	1430	W. R. Hiers, Jr.													W. R. Hiers, Jr.	10/26/98	1524	Bob Koch	
Relinquished by:	Date:	Time:	Received by lab by:													Date:	Time:	Remarks:		
Bob Koch	10/26/98	1530	Karen Blakeney													10/26/98	1550			

White = sample collector

Yellow = file

Pink = with report

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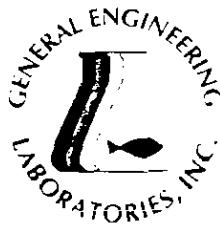
CHAIN OF CUSTODY RECORD

SAMPLE ID	DATE	TIME	WELL SOIL COMP	# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (X) - Use remarks area to specify specific compounds or methods										Remarks				
					pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrate/Nitrite	ASPC: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Method Required	METALS - specify	Pesticide	Herbicide		Total Phosphorus	Acid Extractables	B/N Extractables	PCB's
14 995PORT001-14	10/26/98	1240	X	X 3						X									NBCK16650047-02
15 995PORT001-15	10/26/98	1245	1	X 3						X									NBCK16650047-01
16 995PORT001-16	10/26/98	1250	X	X 3						X									NBCK16650047-02
17 995PORT001-17	10/26/98	1255	X	X 3						X									NBCK16650048-01
18 995PORT001-18	10/26/98	1300	X	X 4						X									NBCK16650048-02
19 995PORT001-19	10/26/98	1305	X	X 4						X									NBCK16650049-01
20 995PORT001-20	10/26/98	1310	1	X 3						X									NBCK16650049-02
21 995PORT001-21	10/26/98	1315	1	X 3						X									NBCK16650050-02
22 995PORT001-22	10/26/98	1320	X	X 3						X									NBCK16650051-02
23 995PORT001-23	10/26/98	1325	X	X 3						X									NBCK16650052-02
24 995PORT001-24	10/26/98	1330	X	X 3						X									NBCK16650053-02
25 995PORT001-25	10/26/98	1030	X	X 1						X									NBCK16650054-02
Relinquished by:				Date:	Time:	Received by:		Relinquished by:		Date:	Time:	Received by:							
<u>Jerry J. Hayes</u>				10/26/98	1430	<u>W.R. Hines, Jr.</u>		<u>W.R. Hines, Jr.</u>		10/26/98	1524	<u>Bob Kochan</u>							
Relinquished by:				Date:	Time:	Received by lab by:		Relinquished by:		Date:	Time:	Received by:							
<u>Bob Kochan</u>				10/26/98	1550	<u>Dawn Blakeney</u>		<u>Dawn Blakeney</u>		10/26/98	1550								

White = sample collector

Yellow = file

Pink = with report



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 1 of 3

Sample ID : 99SPORT0060-01
Lab ID : 9811753-01
Matrix : Soil
Date Collected : 11/23/98
Date Received : 11/23/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.210	1.05	ug/kg	1.0	TCL	11/25/98	1429	136689	1
1,1,1-Trichloroethane	U	ND	0.105	1.05	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.630	1.05	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.315	1.05	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.105	1.05	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.315	1.05	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.420	1.05	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.420	1.05	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.210	1.05	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.525	1.05	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.210	1.05	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.210	1.05	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.105	1.05	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.105	1.05	ug/kg	1.0					
2-Butanone		10.8	3.36	5.25	ug/kg	1.0					
2-Hexanone	U	ND	2.94	5.25	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.26	5.25	ug/kg	1.0					
Acetone		69.0	10.8	10.8	ug/kg	1.0					
Acetonitrile	U	ND	1.05	26.3	ug/kg	1.0					
Acrolein	U	ND	4.83	10.5	ug/kg	1.0					
Acrylonitrile	U	ND	4.10	10.5	ug/kg	1.0					
Allyl Chloride	U	ND	0.420	5.25	ug/kg	1.0					
Benzene		4.75	0.525	1.05	ug/kg	1.0					
Bromoform	U	ND	0.315	1.05	ug/kg	1.0					
Carbon Disulfide	U	ND	0.315	5.25	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.525	1.05	ug/kg	1.0					
Chlorobenzene	U	ND	0.315	1.05	ug/kg	1.0					

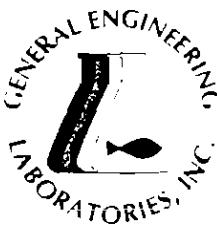
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9811753-01



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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.210	1.05	ug/kg	1.0					
Chloroethane	U	ND	0.315	1.05	ug/kg	1.0	TCL	11/25/98	1429	136689	1
Chloroform	U	ND	0.105	1.05	ug/kg	1.0					
Chloroprene	U	ND	10.5	21.0	ug/kg	1.0					
Dibromomethane	U	ND	0.210	1.05	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.105	1.05	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.26	1.26	ug/kg	1.0					
Ethylbenzene	J	0.851	0.315	1.05	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.62	10.5	ug/kg	1.0					
Methacrylonitrile	U	ND	0.945	5.25	ug/kg	1.0					
Methyl Bromide	U	ND	0.315	1.05	ug/kg	1.0					
Methyl Chloride	U	ND	0.210	1.05	ug/kg	1.0					
Methyl Iodide	U	ND	0.630	5.25	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.420	5.25	ug/kg	1.0					
Methylene Chloride	U	ND	1.47	1.47	ug/kg	1.0					
Propionitrile	U	ND	3.57	10.5	ug/kg	1.0					
Styrene	U	ND	0.315	1.05	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.420	1.05	ug/kg	1.0					
Toluene		4.28	0.945	1.05	ug/kg	1.0					
Trichloroethylene		1.97	0.315	1.05	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.315	1.05	ug/kg	1.0					
Vinyl Acetate	U	ND	2.21	5.25	ug/kg	1.0					
Vinyl chloride	U	ND	0.420	1.05	ug/kg	1.0					
Xylenes (TOTAL)		2.48	0.735	2.10	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.34	10.5	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.210	1.05	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.315	1.05	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.525	5.25	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 11/24/98 1316 136689 2

Comments:



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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 3 of 3

Sample ID : 99SPORT0060-01

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											
Surrogate Recovery Test Percent% Acceptable Limits											
Bromofluorobenzene	APP 9 VOA-8260B	116.			(53.5 - 154.)						
Dibromofluoromethane	APP 9 VOA-8260B	88.6			(63.4 - 136.)						
Toluene-d8	APP 9 VOA-8260B	92.8			(72.1 - 137.)						

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

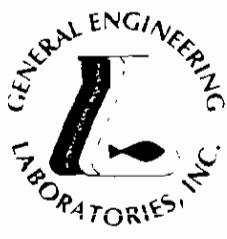
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By

Karen Blakeney





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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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Report Date: December 03, 1998

Page 1 of 3

Sample ID	:	99SPORT0060-02
Lab ID	:	9811753-02
Matrix	:	Soil
Date Collected	:	11/23/98
Date Received	:	11/23/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.208	1.04	ug/kg	1.0	TCL	11/30/98	1139	136689	1
1,1,1-Trichloroethane	U	ND	0.104	1.04	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.624	1.04	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.312	1.04	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.104	1.04	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.312	1.04	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.416	1.04	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.416	1.04	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.520	1.04	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.104	1.04	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.104	1.04	ug/kg	1.0					
2-Butanone		10.6	3.33	5.20	ug/kg	1.0					
2-Hexanone	U	ND	2.91	5.20	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.22	5.20	ug/kg	1.0					
Acetone		86.2	10.7	10.7	ug/kg	1.0					
Acetonitrile	U	ND	1.04	26.0	ug/kg	1.0					
Acrolein	U	ND	4.78	10.4	ug/kg	1.0					
Acrylonitrile	U	ND	4.06	10.4	ug/kg	1.0					
Allyl Chloride	U	ND	0.416	5.20	ug/kg	1.0					
Benzene		3.73	0.520	1.04	ug/kg	1.0					
Bromoform	U	ND	0.312	1.04	ug/kg	1.0					
Carbon Disulfide	U	ND	0.312	5.20	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.520	1.04	ug/kg	1.0					
Chlorobenzene	U	ND	0.312	1.04	ug/kg	1.0					

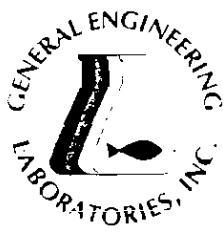
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NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.208	1.04	ug/kg	1.0					
Chloroethane	U	ND	0.312	1.04	ug/kg	1.0	TCL	11/30/98	1139	136689	1
Chloroform	U	ND	0.104	1.04	ug/kg	1.0					
Chloroprene	U	ND	10.4	20.8	ug/kg	1.0					
Dibromomethane	U	ND	0.208	1.04	ug/kg	1.0					
Dichlorobromomethane	I	ND	0.104	1.04	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.25	1.25	ug/kg	1.0					
Ethylbenzene	U	ND	0.312	1.04	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.55	10.4	ug/kg	1.0					
Methacrylonitrile	U	ND	0.936	5.20	ug/kg	1.0					
Methyl Bromide	U	ND	0.312	1.04	ug/kg	1.0					
Methyl Chloride	U	ND	0.208	1.04	ug/kg	1.0					
Methyl Iodide	U	ND	0.624	5.20	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.416	5.20	ug/kg	1.0					
Methylene Chloride	U	ND	1.46	1.46	ug/kg	1.0					
Propionitrile	U	ND	3.54	10.4	ug/kg	1.0					
Styrene	U	ND	0.312	1.04	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.416	1.04	ug/kg	1.0					
Toluene	U	ND	0.936	1.04	ug/kg	1.0					
Trichloroethylene	J	0.790	0.312	1.04	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.312	1.04	ug/kg	1.0					
Vinyl Acetate	U	ND	2.18	5.20	ug/kg	1.0					
Vinyl chloride	U	ND	0.416	1.04	ug/kg	1.0					
Xylenes (TOTAL)	U	ND	0.728	2.08	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.29	10.4	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.208	1.04	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.312	1.04	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.520	5.20	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 11/24/98 1322 136689 2

Comments:





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STATE	GEL	EPI
FL	E87156/E87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 3 of 3

Sample ID : 99SPORT0060-02

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Data reported in mass/mass units is reported 'as received'.											

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	117	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	103.	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	91.3	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

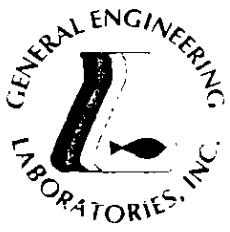
U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By

Karen Blakeney



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STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

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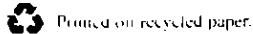
Sample ID : 99SPORT0060-03
Lab ID : 9811753-03
Matrix : Soil
Date Collected : 11/23/98
Date Received : 11/23/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.208	1.04	ug/kg	1.0	TCI.	11/30/98	1208	136689	1
1,1,1-Trichloroethane	U	ND	0.104	1.04	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.624	1.04	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.312	1.04	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.104	1.04	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.312	1.04	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.416	1.04	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.416	1.04	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.520	1.04	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.208	1.04	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.104	1.04	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.104	1.04	ug/kg	1.0					
2-Butanone		12.6	3.33	5.20	ug/kg	1.0					
2-Hexanone	U	ND	2.91	5.20	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.22	5.20	ug/kg	1.0					
Acetone		69.1	10.7	10.7	ug/kg	1.0					
Acetonitrile	U	ND	1.04	26.0	ug/kg	1.0					
Acrolein	U	ND	4.78	10.4	ug/kg	1.0					
Acrylonitrile	U	ND	4.06	10.4	ug/kg	1.0					
Allyl Chloride	U	ND	0.416	5.20	ug/kg	1.0					
Benzene		4.52	0.520	1.04	ug/kg	1.0					
Bromoform	U	ND	0.312	1.04	ug/kg	1.0					
Carbon Disulfide	J	3.34	0.312	5.20	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.520	1.04	ug/kg	1.0					
Chlorobenzene	U	ND	0.312	1.04	ug/kg	1.0					

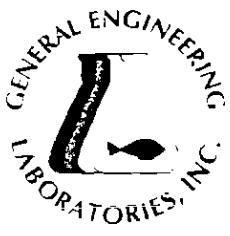
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9811753-03



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STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 2 of 3

Sample ID : 99SPORT0060-03

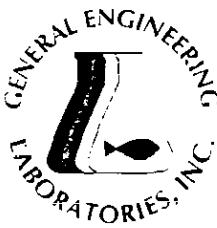
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.208	1.04	ug/kg	1.0					
Chloroethane	U	ND	0.312	1.04	ug/kg	1.0	TCL	11/30/98	1208	136689	1
Chloroform	U	ND	0.104	1.04	ug/kg	1.0					
Chloroprene	U	ND	10.4	20.8	ug/kg	1.0					
Dibromomethane	U	ND	0.208	1.04	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.104	1.04	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.25	1.25	ug/kg	1.0					
Ethylbenzene	U	ND	0.312	1.04	ug/kg	1.0					
Isobutyl Alcohol	U	ND	6.55	10.4	ug/kg	1.0					
Methacrylonitrile	U	ND	0.936	5.20	ug/kg	1.0					
Methyl Bromide	U	ND	0.312	1.04	ug/kg	1.0					
Methyl Chloride	U	ND	0.208	1.04	ug/kg	1.0					
Methyl Iodide	U	ND	0.624	5.20	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.416	5.20	ug/kg	1.0					
Methylene Chloride	U	ND	1.46	1.46	ug/kg	1.0					
Propionitrile	U	ND	3.54	10.4	ug/kg	1.0					
Styrene	U	ND	0.312	1.04	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.416	1.04	ug/kg	1.0					
Toluene		2.34	0.936	1.04	ug/kg	1.0					
Trichloroethylene		5.09	0.312	1.04	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.312	1.04	ug/kg	1.0					
Vinyl Acetate	U	ND	2.18	5.20	ug/kg	1.0					
Vinyl chloride	U	ND	0.416	1.04	ug/kg	1.0					
Xylenes (TOTAL)	J	0.801	0.728	2.08	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.29	10.4	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.208	1.04	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.312	1.04	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.520	5.20	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 11/24/98 1327 136689 2

Comments:



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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 3 of 3

Sample ID : 99SPORT0060-03

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	112.	(53.5 - 154.)
Dibromofluoromethane	APP 9 VOA-8260B	91.2	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	87.3	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

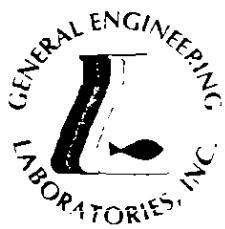
U indicates that the analyte was not detected at a concentration greater than the detection limit

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Reviewed By

Karen Blakeney



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STATE	GEL	EPI
FL	E87156/87294	E87472/87-
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contract: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 1 of 3

Sample ID : 99SPORT0060-04
Lab ID : 9811753-04
Matrix : Soil
Date Collected : 11/23/98
Date Received : 11/23/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.224	1.12	ug/kg	1.0	TCL	11/25/98	1230	136689	.
1,1,1-Trichloroethane	U	ND	0.112	1.12	ug/kg	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.672	1.12	ug/kg	1.0					
1,1,2-Trichloroethane	U	ND	0.336	1.12	ug/kg	1.0					
1,1-Dichloroethane	U	ND	0.112	1.12	ug/kg	1.0					
1,1-Dichloroethylene	U	ND	0.336	1.12	ug/kg	1.0					
1,2,3-Trichloropropane	U	ND	0.448	1.12	ug/kg	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.448	1.12	ug/kg	1.0					
1,2-Dibromoethane	U	ND	0.224	1.12	ug/kg	1.0					
1,2-Dichlorobenzene	U	ND	0.560	1.12	ug/kg	1.0					
1,2-Dichloroethane	U	ND	0.224	1.12	ug/kg	1.0					
1,2-Dichloropropane	U	ND	0.224	1.12	ug/kg	1.0					
1,2-cis-Dichloroethylene	U	ND	0.112	1.12	ug/kg	1.0					
1,2-trans-Dichloroethylene	U	ND	0.112	1.12	ug/kg	1.0					
2-Butanone		22.2	3.58	5.60	ug/kg	1.0					
2-Hexanone	U	ND	3.14	5.60	ug/kg	1.0					
4-Methyl-2-pentanone	U	ND	3.47	5.60	ug/kg	1.0					
Acetone		104	11.5	11.5	ug/kg	1.0					
Acetonitrile	U	ND	1.12	28.0	ug/kg	1.0					
Acrolein	U	ND	5.15	11.2	ug/kg	1.0					
Acrylonitrile	U	ND	4.37	11.2	ug/kg	1.0					
Allyl Chloride	U	ND	0.448	5.60	ug/kg	1.0					
Benzene		15.5	0.560	1.12	ug/kg	1.0					
Bromoform	U	ND	0.336	1.12	ug/kg	1.0					
Carbon Disulfide	U	ND	0.336	5.60	ug/kg	1.0					
Carbon Tetrachloride	U	ND	0.560	1.12	ug/kg	1.0					
Chlorobenzene	U	ND	0.336	1.12	ug/kg	1.0					

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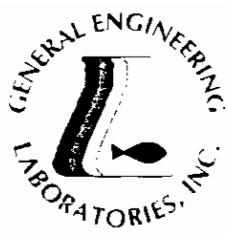
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9811753-04



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SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
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Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 2 of 3

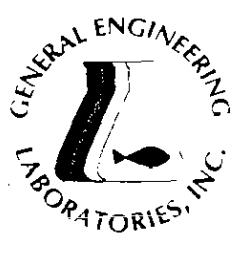
Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.224	1.12	ug/kg	1.0					
Chloroethane	U	ND	0.336	1.12	ug/kg	1.0	TCL	11/25/98	1230	136689	1
Chloroform	U	ND	0.112	1.12	ug/kg	1.0					
Chloroprene	U	ND	11.2	22.4	ug/kg	1.0					
Dibromomethane	U	ND	0.224	1.12	ug/kg	1.0					
Dichlorobromomethane	U	ND	0.112	1.12	ug/kg	1.0					
Dichlorodifluoromethane	U	ND	1.34	1.34	ug/kg	1.0					
Ethylbenzene		2.77	0.336	1.12	ug/kg	1.0					
Isobutyl Aiconol	U	ND	7.06	11.2	ug/kg	1.0					
Methacrylonitrile	U	ND	1.01	5.60	ug/kg	1.0					
Methyl Bromide	U	ND	0.336	1.12	ug/kg	1.0					
Methyl Chloride		2.64	0.224	1.12	ug/kg	1.0					
Methyl Iodide	U	ND	0.672	5.60	ug/kg	1.0					
Methyl Methacrylate	U	ND	0.448	5.60	ug/kg	1.0					
Methylene Chloride	U	ND	1.57	1.57	ug/kg	1.0					
Propionitrile	U	ND	3.81	11.2	ug/kg	1.0					
Styrene	U	ND	0.336	1.12	ug/kg	1.0					
Tetrachloroethylene	U	ND	0.448	1.12	ug/kg	1.0					
Toluene		9.25	1.01	1.12	ug/kg	1.0					
Trichloroethylene		2.67	0.336	1.12	ug/kg	1.0					
Trichlorofluoromethane	U	ND	0.336	1.12	ug/kg	1.0					
Vinyl Acetate	U	ND	2.35	5.60	ug/kg	1.0					
Vinyl chloride	U	ND	0.448	1.12	ug/kg	1.0					
Xylenes (TOTAL)		5.19	0.784	2.24	ug/kg	1.0					
bis(2-Chloromethyl)ether	U	ND	5.70	11.2	ug/kg	1.0					
cis-1,3-Dichloropropylene	U	ND	0.224	1.12	ug/kg	1.0					
trans-1,3-Dichloropropylene	U	ND	0.336	1.12	ug/kg	1.0					
trans-1,4-Dichloro-2-butene	U	ND	0.560	5.60	ug/kg	1.0					

The following prep procedures were performed:

Volatiles 8260 High Level

TCL 11/24/98 1330 136689 2

Comments:



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STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 3 of 3

Sample ID : 99SPORT0060-04

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst Date	Time	Batch M
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Data reported in mass/mass units is reported 'as received'.

Surrogate Recovery	Test	Percent %	Acceptable Limits
Bromofluorobenzene	APP 9 VOA-8260B	103.	(53.5 - 154.)
Dibromoiodomethane	APP 9 VOA-8260B	83.3	(63.4 - 136.)
Toluene-d8	APP 9 VOA-8260B	87.0	(72.1 - 137.)

M = Method	Method-Description
------------	--------------------

M 1	EPA 8260B
M 2	EPA 5035

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

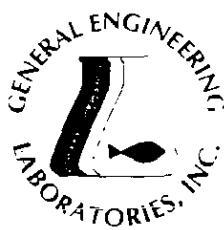
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakeney
Reviewed By



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STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 1 of 3

Sample ID	:	99SPORT0060-05
Lab ID	:	9811753-05
Matrix	:	GroundH2O
Date Collected	:	11/23/98
Date Received	:	11/23/98
Priority	:	Routine
Collector	:	Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>Appendix IX Volatiles - 55 items</i>											
1,1,1,2-Tetrachloroethane	U	ND	0.300	1.00	ug/l	1.0	TCL	11/25/98	0901	136699	.
1,1,1-Trichloroethane	U	ND	0.200	1.00	ug/l	1.0					
1,1,2,2-Tetrachloroethane	U	ND	0.500	1.00	ug/l	1.0					
1,1,2-Trichloroethane	U	ND	0.400	1.00	ug/l	1.0					
1,1-Dichloroethane	U	ND	0.400	1.00	ug/l	1.0					
1,1-Dichloroethylene	U	ND	0.700	1.00	ug/l	1.0					
1,2,3-Trichloropropane	U	ND	0.500	1.00	ug/l	1.0					
1,2-Dibromo-3-chloropropane	U	ND	0.600	1.00	ug/l	1.0					
1,2-Dibromoethane	U	ND	0.400	1.00	ug/l	1.0					
1,2-Dichlorobenzene	U	ND	0.400	1.00	ug/l	1.0					
1,2-Dichloroethane	U	ND	0.200	1.00	ug/l	1.0					
1,2-Dichloropropane	U	ND	0.200	1.00	ug/l	1.0					
1,2-cis-Dichloroethylene	U	ND	0.700	1.00	ug/l	1.0					
1,2-trans-Dichloroethylene	U	ND	0.700	1.00	ug/l	1.0					
2-Butanone	U	ND	5.90	10.0	ug/l	1.0					
2-Hexanone	U	ND	3.20	5.00	ug/l	1.0					
4-Methyl-2-pentanone	U	ND	1.60	5.00	ug/l	1.0					
Acetone	U	ND	3.70	5.00	ug/l	1.0					
Acetonitrile	U	ND	15.6	25.0	ug/l	1.0					
Acrolein	U	ND	8.90	10.0	ug/l	1.0					
Acrylonitrile	U	ND	8.20	10.0	ug/l	1.0					
Allyl Chloride	U	ND	2.10	5.00	ug/l	1.0					
Benzene	U	ND	0.300	1.00	ug/l	1.0					
Bromoform	U	ND	0.400	1.00	ug/l	1.0					
Carbon Disulfide	U	ND	1.80	5.00	ug/l	1.0					
Carbon Tetrachloride	U	ND	0.200	1.00	ug/l	1.0					
Chlorobenzene	U	ND	0.300	1.00	ug/l	1.0					

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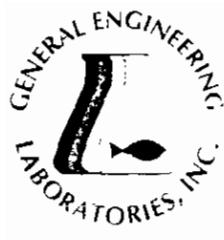
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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
 SUPSHIP-Portsmouth Detachment-Env.
 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

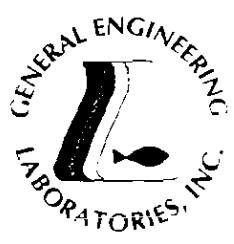
Report Date: December 03, 1998

Page 2 of 3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Chlorodibromomethane	U	ND	0.300	1.00	ug/l	1.0					
Chloroethane	U	ND	0.300	1.00	ug/l	1.0	TCL	11/25/98	0901	136699	1
Chloroform	U	ND	0.700	1.00	ug/l	1.0					
Chloroprene	U	ND	0.100	20.0	ug/l	1.0					
Dibromomethane	U	ND	0.200	1.00	ug/l	1.0					
Dichlorobromomethane	U	ND	0.400	1.00	ug/l	1.0					
Dichlorodifluoromethane	U	ND	1.20	5.00	ug/l	1.0					
Ethylbenzene	U	ND	0.300	1.00	ug/l	1.0					
Isobutyl Alcohol	U	ND	36.0	50.0	ug/l	1.0					
Methacrylonitrile	U	ND	3.80	5.00	ug/l	1.0					
Methyl Bromide	U	ND	0.300	1.00	ug/l	1.0					
Methyl Chloride	U	ND	0.200	1.00	ug/l	1.0					
Methyl Iodide	U	ND	5.20	10.0	ug/l	1.0					
Methyl Methacrylate	U	ND	3.90	5.00	ug/l	1.0					
Methylene Chloride	U	ND	1.20	5.00	ug/l	1.0					
Propionitrile	U	ND	2.60	10.0	ug/l	1.0					
Styrene	U	ND	0.200	1.00	ug/l	1.0					
Tetrachloroethylene	U	ND	0.700	1.00	ug/l	1.0					
Toluene	U	ND	0.500	1.00	ug/l	1.0					
Trichloroethylene	U	ND	0.600	1.00	ug/l	1.0					
Trichlorofluoromethane	U	ND	1.70	5.00	ug/l	1.0					
Vinyl Acetate	U	ND	1.80	5.00	ug/l	1.0					
Vinyl chloride	U	ND	0.400	1.00	ug/l	1.0					
Xylenes (TOTAL)	U	ND	1.10	2.00	ug/l	1.0					
bis(2-Chloromethyl)ether	U	ND	3.70	10.0	ug/l	1.0					
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/l	1.0					
trans-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/l	1.0					
trans-1,4-Dichloro-2-butene	U	ND	2.80	5.00	ug/l	1.0					

Comments:

Data reported in mass/mass units is reported 'as received'.



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Laboratory Certifications		
STATE	GEL	EPI
FL	E87156/87294	E87472/8'
NC	233	
SC	10120	I0582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: December 03, 1998

Page 3 of 3

Sample ID		: 99SPORT0060-05	
Surrogate Recovery	Test	Percent%	Acceptable Limits
BromoFluorobenzene	APP 9 VOA-8260B	90.8	(60.2 - 139.)
DibromoFluoromethane	APP 9 VOA-8260B	85.1	(70.6 - 152.)
Toluene-d8	APP 9 VOA-8260B	84.9	(68.4 - 135.)

M = Method	Method-Description
M 1	EPA 8260B

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Karen Blakeney at (843) 769-7386.

Karen Blakney

Reviewed By



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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9811753%

Report Date: December 03, 1998

Page 2 of 5

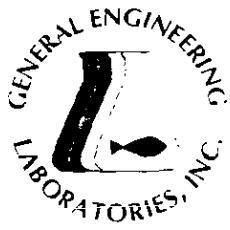
Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Dichlorodifluoromethane						0.00	ug/kg				TCL	11/24/98	1206
Ethylbenzene						0.00	ug/kg						
Isobutyl Alcohol						0.00	ug/kg						
Methacrylonitrile						0.00	ug/kg						
Methyl Bromide						0.00	ug/kg						
Methyl Chloride						0.00	ug/kg						
Methyl Iodide						0.00	ug/kg						
Methyl Methacrylate						0.00	ug/kg						
Methylene Chloride						0.00	ug/kg						
Propionitrile						0.00	ug/kg						
Styrene						0.00	ug/kg						
Tetrachloroethylene						0.00	ug/kg						
Trichlorofluoromethane						0.00	ug/kg						
Vinyl Acetate						0.00	ug/kg						
Vinyl chloride						0.00	ug/kg						
Xylenes (TOTAL)						0.00	ug/kg						
bis(2-Chloromethyl)ether						0.00	ug/kg						
cis-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,3-Dichloropropylene						0.00	ug/kg						
trans-1,4-Dichloro-2-butene						0.00	ug/kg						
QC563982		BLANK	136699										
1,1-Dichloroethylene						0.00	ug/l						
Benzene						0.00	ug/l						
Chlorobenzene						0.00	ug/l						
Toluene						0.00	ug/l						
Trichloroethylene						0.00	ug/l						
*Bromofluorobenzene							ug/l	85.4	(60.2 - 139.)				
*Dibromofluoromethane							ug/l	87.0	(70.6 - 152.)				
*Toluene-d8							ug/l	79.9	(68.4 - 135.)				
1,1,1,2-Tetrachloroethane						0.00	ug/l						
1,1,1-Trichloroethane						0.00	ug/l						
1,1,2,2-Tetrachloroethane						0.00	ug/l						
1,1,2-Trichloroethane						0.00	ug/l						
1,1-Dichloroethane						0.00	ug/l						
1,2,3-Trichloropropane						0.00	ug/l						
1,2-Dibromo-3-chloropropane						0.00	ug/l						
1,2-Dibromoethane						0.00	ug/l						
1,2-Dichlorobenzene						0.00	ug/l						
1,2-Dichloroethane						0.00	ug/l						
1,2-Dichloropropane						0.00	ug/l						

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GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9811753%

Report Date: December 03, 1998

Page 1 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Volatile Organics													
QC563943		BLANK	136689										
1,1-Dichloroethylene							0.00	ug/kg				TCL	11/24/98 1206
Benzene							0.00	ug/kg					
Chlorobenzene							0.00	ug/kg					
Toluene							0.00	ug/kg					
Trichloroethylene							0.00	ug/kg					
*Bromofluorobenzene								ug/kg	85.4	(53.5 - 154.)			
*Dibromofluoromethane								ug/kg	87.0	(63.4 - 136.)			
*Toluene-d8								ug/kg	79.9	(72.1 - 137.)			
1,1,1,2-Tetrachloroethane							0.00	ug/kg					
1,1,1-Trichloroethane							0.00	ug/kg					
1,1,2,2-Tetrachloroethane							0.00	ug/kg					
1,1,2-Trichloroethane							0.00	ug/kg					
1,1-Dichloroethane							0.00	ug/kg					
1,2,3-Trichloropropane							0.00	ug/kg					
1,2-Dibromo-3-chloropropane							0.00	ug/kg					
1,2-Dibromoethane							0.00	ug/kg					
1,2-Dichlorobenzene							0.00	ug/kg					
1,2-Dichloroethane							0.00	ug/kg					
1,2-Dichloropropane							0.00	ug/kg					
1,2-cis-Dichloroethylene							0.00	ug/kg					
1,2-trans-Dichloroethylene							0.00	ug/kg					
2-Butanone							0.00	ug/kg					
2-Hexanone							0.00	ug/kg					
4-Methyl-2-pentanone							0.00	ug/kg					
Acetone							0.00	ug/kg					
Acetonitrile							0.00	ug/kg					
Acrolein							0.00	ug/kg					
Acrylonitrile							0.00	ug/kg					
Allyl Chloride							0.00	ug/kg					
Bromoform							0.00	ug/kg					
Carbon Disulfide							0.00	ug/kg					
Carbon Tetrachloride							0.00	ug/kg					
Chlorodibromomethane							0.00	ug/kg					
Chloroethane							0.00	ug/kg					
Chloroform							0.00	ug/kg					
Chloroprene							0.00	ug/kg					
Dibromomethane							0.00	ug/kg					
Dichlorobromomethane							0.00	ug/kg					

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9811753%

Report Date: December 03, 1998

Page 3 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
1,2-cis-Dichloroethylene						0.00	ug/l					TCL	11/24/98 1206
1,2-trans-Dichloroethylene						0.00	ug/l						
2-Butanone						0.00	ug/l						
2-Hexanone						0.00	ug/l						
4-Methyl-2-pentanone						0.00	ug/l						
Acetone						0.00	ug/l						
Acetonitrile						0.00	ug/l						
Acrolein						0.00	ug/l						
Acrylonitrile						0.00	ug/l						
Allyl Chloride						0.00	ug/l						
Bromoform						0.00	ug/l						
Carbon Disulfide						0.00	ug/l						
Carbon Tetrachloride						0.00	ug/l						
Chlorodibromomethane						0.00	ug/l						
Chloroethane						0.00	ug/l						
Chloroform						0.00	ug/l						
Chloroprene						0.00	ug/l						
Dibromomethane						0.00	ug/l						
Dichlorobromomethane						0.00	ug/l						
Dichlorodifluoromethane						0.00	ug/l						
Ethylbenzene						0.00	ug/l						
Isobutyl Alcohol						0.00	ug/l						
Methacrylonitrile						0.00	ug/l						
Methyl Bromide						0.00	ug/l						
Methyl Chloride						0.00	ug/l						
Methyl Iodide						0.00	ug/l						
Methyl Methacrylate						0.00	ug/l						
Methylene Chloride						0.00	ug/l						
Propionitrile						0.00	ug/l						
Styrene						0.00	ug/l						
Tetrachloroethylene						0.00	ug/l						
Trichlorofluoromethane						0.00	ug/l						
Vinyl Acetate						0.00	ug/l						
Vinyl chloride						0.00	ug/l						
Xylenes (TOTAL)						0.00	ug/l						
bis(2-Chloromethyl)ether						0.00	ug/l						
cis-1,3-Dichloropropylene						0.00	ug/l						
trans-1,3-Dichloropropylene						0.00	ug/l						
trans-1,4-Dichloro-2-butene						0.00	ug/l						

QC563944

LCS 136689

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Lab. Sample ID: 9811753%

Report Date: December 03, 1998

Page 4 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD %	REC %	Range	Analyst	Date	Time
1,1-Dichloroethylene			50			49.5	ug/kg		99.0	(61.0 - 131.)	TCL	11/24/98	1137
Benzene			50			50.4	ug/kg		101	(64.0 - 126.)	TCL	11/24/98	1137
Chlorobenzene			50			45.6	ug/kg		91.3	(77.3 - 123.)			
Toluene			50			44.1	ug/kg		88.2	(70.4 - 130.)			
Trichloroethylene			50			46.3	ug/kg		92.6	(67.3 - 126.)			
*Bromofluorobenzene			50			38.3	ug/kg		76.5	(53.5 - 154.)			
*Dibromoformmethane			50			40.8	ug/kg		81.6	(63.4 - 136.)			
*Toluene-d8			50			36.3	ug/kg		72.7	(72.1 - 137.)			
QC563983	LCS	136699											
1,1-Dichloroethylene			50			49.5	ug/l		99.0	(75.0 - 125.)			
Benzene			50			50.4	ug/l		101	(75.0 - 125.)			
Chlorobenzene			50			45.6	ug/l		91.3	(75.0 - 125.)			
Methyl Tert Butyl Ether			(nom_conc = 0)			0.00	ug/l						
Naphthalene			(nom_conc = 0)			0.00	ug/l						
Toluene			50			44.1	ug/l		88.2	(75.0 - 125.)			
Trichloroethylene			50			46.3	ug/l		92.6	(75.0 - 125.)			
*Bromofluorobenzene			50			38.3	ug/l		76.5	(60.2 - 139.)			
*Dibromoformmethane			50			40.8	ug/l		81.6	(70.6 - 152.)			
*Toluene-d8			50			36.3	ug/l		72.7	(68.4 - 135.)			
QC563945	9811663-01PS	136689											
1,1-Dichloroethylene			50	0.00		48.4	ug/kg		96.7	(67.9 - 136.)	TCL	11/24/98	2137
Benzene			50	0.00		47.4	ug/kg		94.9	(62.2 - 131.)			
Chlorobenzene			50	0.00		38.3	ug/kg		76.7	(74.4 - 127.)			
Toluene			50	0.00		44.8	ug/kg		89.6	(67.0 - 143.)			
Trichloroethylene			50	0.00		42.1	ug/kg		84.2	(63.2 - 129.)			
*Bromofluorobenzene			50			46.5	ug/kg		93.0	(53.5 - 154.)			
*Dibromoformmethane			50			42.7	ug/kg		85.5	(63.4 - 136.)			
*Toluene-d8			50			43.5	ug/kg		86.9	(72.1 - 137.)			
QC563984	9811753-05PS	136699											
1,1-Dichloroethylene			50	0.00		49.0	ug/l		97.9	(60.0 - 123.)	TCL	11/25/98	0930
Benzene			50	0.00		50.3	ug/l		101	(38.0 - 137.)			
Chlorobenzene			50	0.00		50.1	ug/l		100	(74.0 - 119.)			
Toluene			50	0.00		49.7	ug/l		99.4	(42.0 - 126.)			
Trichloroethylene			50	0.00		47.4	ug/l		94.8	(65.0 - 112.)			
*Bromofluorobenzene			50			42.0	ug/l		84.1	(60.2 - 139.)			
*Dibromoformmethane			50			40.7	ug/l		81.5	(70.6 - 152.)			
*Toluene-d8			50			40.7	ug/l		81.3	(68.4 - 135.)			
QC563946	9811663-01PSD	136689											
1,1-Dichloroethylene			50	0.00		52.2	ug/kg	7.58	104	(0.00 - 36.6)	TCL	11/24/98	
Benzene			50	0.00		48.5	ug/kg	2.15	96.9	(0.00 - 30.4)			

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QC Summary Report

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00197 Lab. Sample ID: 9811753% Report Date: December 03, 1998 Page 5 of 5

Sample/Parameter	Type	Batch	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Analyst	Date	Time
Chlorobenzene			50	0.00		37.6	ug/kg	2.00	75.1	(0.00 - 17.6)	TCL	11/24/98	2207
Toluene			50	0.00		45.5	ug/kg	1.60	91.0	(0.00 - 20.1)			
Trichloroethylene			50	0.00		43.0	ug/kg	2.02	85.9	(0.00 - 34.1)			
*Bromofluorobenzene			50			46.3	ug/kg		92.6	(53.5 - 154.)			
*Dibromofluoromethane			50			42.6	ug/kg		85.2	(63.4 - 136.)			
*Toluene-d8			50			42.7	ug/kg		85.3	(72.1 - 137.)			
QC563985	9811753-05PSD	136699											
1,1-Dichloroethylene			50	0.00		50.1	ug/l	2.30	100	(0.00 - 30.0)	TCL	11/25/98	1000
Benzene			50	0.00		51.0	ug/l	1.46	102	(0.00 - 30.0)			
Chlorobenzene			50	0.00		50.3	ug/l	0.358	101	(0.00 - 30.0)			
Toluene			50	0.00		50.9	ug/l	2.37	102	(0.00 - 30.0)			
Trichloroethylene			50	0.00		47.3	ug/l	0.148	94.7	(0.00 - 30.0)			
*Bromofluorobenzene			50			41.0	ug/l		81.9	(60.2 - 139.)			
*Dibromofluoromethane			50			40.2	ug/l		80.4	(70.6 - 152.)			
*Toluene-d8			50			40.5	ug/l		81.0	(68.4 - 135.)			

Notes:

The qualifiers in this report are defined as follows:

J indicates presence of analyte < RL (Report Limit)

U indicates presence of analyte < DL (Detect Limit)

n/a indicates that spike recovery limits do not apply when
sample concentration exceeds spike conc by a factor of 4 or more



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2040 Savage Road
Charleston, South Carolina
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

CHAIN OF CUSTODY RECORD

Page 1 of 1

9811753

Client Name/Facility Name SPORT ENV DETC HASN				# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods												Use F or P in the boxes to indicate whether sample was filtered and/or preserved			
Collected by/Company SPORT ENV DETC HASN					pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate <i>Method Required</i>	VOC - specify	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables		PCB's	Cyanide	Coliform - specify type
SAMPLE ID	DATE	TIME	WELL SOIL COMP GRAB	3		X		X												
99 SPOR T 1665-01	11-23-98	1120	X	3																NECK 1665-01
99 SPOR T 1665-02	11-23-98	1127	X	3																NECK 1665-02
99 SPOR T 1665-03	11-23-98	1133	X	3																NECK 1665-03
99 SPOR T 1665-04	11-23-98	1144	X	3																NECK 1665-04
99 SPOR T 1665-05	11-23-98	1150	X	3																NECK 1665-05
Relinquished by: <i>[Signature]</i>	Date: 11/23/98	Time: 1520	Received by: <i>W.R. Hines, Jr.</i>	Relinquished by: <i>[Signature]</i>	Date: 11/23/98	Time: 1535	Received by: <i>Stephanie Bealeton</i>	Relinquished by: <i>[Signature]</i>	Date: 11/23/98	Time: 1555	Received by lab by: <i>Karen Blakney</i>	Relinquished by: <i>[Signature]</i>	Date: 11/23/98	Time: 1555	Remarks: <i>Stephanie Bealeton</i>					
Relinquished by: <i>[Signature]</i>	Date: 11-23-98	Time: 1555	Received by lab by: <i>Karen Blakney</i>	Relinquished by: <i>[Signature]</i>	Date: 11/23/98	Time: 1555	Remarks: <i>Stephanie Bealeton</i>													

White = sample collector

Yellow = file

Pink = with report

PHOTOGRAPHS

APPENDIX D

PHOTOGRAPHS



FENCE LINE AND DITCH WHERE INVESTIGATIVE SAMPLES TAKEN



CONCRETE PAD



INITIAL EXCAVATION



GROUND WATER INTRUSION



COMPLETED EXCAVATION



GRAVEL BEING ADDED TO EXCAVATION



SITE FINISHED AND GRADED



SITE FINISHED AND GRADED

SHIPPING MANIFEST

APPENDIX E

SHIPPING

MANIFEST

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to do so may subject you to
criminal and/or civil penalties under
Sections 824.11151 or 324.12116 MCL.



**WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY**
SP4400-98-D-0020

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

Form Approved. OMB No. 2850-0028

Previous print or type.

A UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 3 C 0 0 0 0 3 2 8 9 0 6 1 5 3 5 1	Manifest Document No. 15351	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address 843-743-8086 x13		ANNEX To Charleston Naval Com 2511 Commerce ST. Bldg 25B North Charleston SC 29406 R&K Mission					
4. Generator's Phone # 843-743-8086 x13		5. US EPA ID Number A L D 0 6 7 1 3 8 8 9 3	6. US EPA ID Number A L D 0 6 7 1 3 8 8 9 3	7. US EPA ID Number 	8. US EPA ID Number 		
9. Designated Facility Name and Site Address Chem-Met Services 18550 Allen Rd Brownstown, MI 48182		10. US EPA ID Number M I D 0 9 6 9 6 3 1 9 4	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) RQ-Hazardous Waste Solid & S. (Hazardous waste) 9NA307,PG II (D040)	12. Containments No. Type 015 DR 0.8879	13. Total Quantity 0.8879	14. Unit Wt/Vol P	15. Waste No.
b. <input checked="" type="checkbox"/> RQ-Hazardous Waste Solid & S. (Hazardous waste) 9NA307,PG II (D040)		001					
c. <input type="checkbox"/>							
d. <input type="checkbox"/>							
e. <input type="checkbox"/>							
f. <input type="checkbox"/>							
g. <input type="checkbox"/>							
h. <input type="checkbox"/>							
J. Additional Descriptions for Materials Listed Above: a APPS COMM0092 ENGINE 134 15A 350 PL DM b APPS ENGINE c APPS ENGINE d APPS ENGINE		IC Handling Code T21 b					
16. Special Handling Instructions and Additional Information: Mail signed ORIGINALS to Generator, COPIES to CSI Environmental, Inc., 5775 W 74th St., Indianapolis, IN 46278. CSI 24 Hour Emergency #313-388-7956 D.D.157							
17. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.							
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. RECEIVED 1/16/99							
Printed/Typed Name J. Stevens		Signature John J. Stevens		Date 20 02 99 Year			
TRANSPORTER		17. Transporter 1 Acknowledgement of Receipt of Materials Douglas W. Stevens		Signature Douglas W. Stevens Date 20 02 99 Year			
FACILITY		18. Transporter 2 Acknowledgement of Receipt of Materials 		Signature Date 20 02 99 Year			
19. Discrepancy Indication Space 							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Dennis A. Romanstki		Signature Dennis A. Romanstki		Date 20 02 99 Year			



**OAKRIDGE
LANDFILL**
A USA WASTE DIVISION COMPANY

#15
2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 583-2807
(803) 583-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Terry Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9-11-98 Truck #: 35

Driver Signature: Miles Hamilton

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 75837 Tonnage: 23.49

Received By: D Carter

14



2103 Highway 78
P.O. Box 146
Dorchester, SC 29437
(803) 563-2007
(803) 563-4138 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Terry Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9-11-98 Truck #: 19

Driver Signature: Driver

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 23831 Tonnage: 33.11

Received By: C. Jackson



13

2163 Highway 78
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Dorchester, SC 29437
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(803) 583-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Terry Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9-11-98

Truck #: 25

Driver Signature: J. Forrell

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 75821

Tonnage: 23.52

Received By: M Carter



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SPECIAL WASTE MANIFEST

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Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Terry Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9-11-98

Truck #: 27

Driver Signature: Jean Moody

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 75813

Tonnage: 30.60

Received By: M Carter



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SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Terry Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9/11/98

Truck #: 16

Driver Signature: B. Lewis

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 75808

Tonnage: 26.90

Received By: N Carter



#10

2183 Highway 78
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Dorchester, SC 29437
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(803) 563-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Andrew J. Terry

9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9 - 11 - 98

Truck #: 35

Driver Signature: McJew Hamilton

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 15803

Tonnage: 26.46

Received By: M Carter



**OAKRIDGE
LANDFILL**
A USA WASTE DIVISION COMPANY

#9

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SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Andrew Z. Feltby
9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9-11-98 Truck #: 19

Driver Signature: Leroy

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 75792 Tonnage: 30.74

Received By: 47 Carter



**OAKRIDGE
LANDFILL**
A USA WASTE MANAGEMENT COMPANY

#8
2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 583-2807
(803) 583-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: John S. Teller

9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9-11-98

Truck #: 25

Driver Signature: J. Fennell

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 75790

Tonnage: 29.34

Received By: M Carter



**OAKRIDGE
LANDFILL**
A CHAMBERS COMPANY

#7
2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 563-2607
(803) 563-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Andrew T. Eller
9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9-11-98 Truck #: 27

Driver Signature: Andy Moody

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 75788 Tonnage: 36.00

Received By: N Carter



**OAKRIDGE
LANDFILL**
A USA WASTE SERVICES COMPANY

#6

2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 583-2607
(803) 583-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Andy J. Feltner

9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9/11/98

Truck #: 16

Driver Signature: Berry

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 45778

Tonnage: 27.47

Received By: N Carter



**OAKRIDGE
LANDFILL**
A DIVISION OF CHAMBERS OAKRIDGE LANDFILL, INC.

#5

2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 583-2807
(803) 583-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Andrew S. Feller

9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9-11-98

Truck # 35

Driver Signature: McTeer Hamilton

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 75772

Tonnage: 30.42

Received By:

N Carter



**OAKRIDGE
LANDFILL**
A CHAMBERS WASTE SERVICES COMPANY

#4
2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 583-2807
(803) 583-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Andrew J. Fisher

9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9.11.98 Truck #: 19

Driver Signature: Lerry

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 75767 Tonnage: 32.21

Received By: N Carter



#3

2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 583-2607
(803) 583-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: SUPERVISOR OF SHIPBUILDING

Account Number: 490-189

Location/Address: SWMU 166 1899 N HOBSON N CHAS SC

Tele Number: 843-743-6777 EXT 147 Contact: TERRY LEWIS

Generator Signature: Andrew J. Feller
9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: BUTLER WARE TRUCKING

Date: 9-11-98 Truck #: 25

Driver Signature: J - Fernald

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: SOL / TCE CONTAMINATED SOIL

Ticket Number: 75759 Tonnage: 25.77

Received By: P. Alford



**OAKRIDGE
LANDFILL**
A U.S.A. WAY OF DISPOSAL COMPANY

#2
2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 583-2807
(803) 583-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Charles E. Kelley

9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 9-11-98

Truck #: 27

Driver Signature: John Murphy

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 25758

Tonnage: 31.49

Received By: Jeanie Caldwell



1
2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 583-2607
(803) 583-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017
Expiration 09/19/98

Generator: SUPERVISOR OF SHIPBUILDING

Account Number: 490-189

Location/Address: SWMU 166 1899 N HOBSON N CHAS SC

Tele Number: 843-743-6777 EXT 147 Contact: TERRY LEWIS

Generator Signature: Andrew L. Teller

9/11/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: BUTLER WARE TRUCKING

Date: 9/11/98

Truck #: 16

Driver Signature: Brian

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: SOL / TCE CONTAMINATED SOIL

Ticket Number: 75754

Tonnage: 26.36

Received By: R. Callahan



#5

2183 Highway 78
P.O. Box 148
Dorchester, SC 29437
(803) 563-2507
(803) 563-4166 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/1998

Extended to 12/31/98 (RC)

Generator: **SUPERVISOR OF SHIPBUILDING** #19

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Terry Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10.24.98 Truck #: 19

Driver Signature: Lerry

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 80016 Tonnage: 37.15

Received By: Y Carter



#4
2183 Highway 7B
P.O. Box 146
Dorchester, BC V0A 1Z7
(609) 563-2807
(609) 563-4168 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/19/98

extended to 12/31/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

#23

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Jerry L Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-24-98

Truck #: 23

Driver Signature: AC RICHMOND

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 80014

Tonnage: 28.68

Received By: DCotter

a division of Chambers Oakridge Landfill, Inc.



OAKRIDGE
LANDFILL
A CHAMBERS OAKRIDGE COMPANY

#3

2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 563-2607
(803) 563-4168 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/19/98

Extended to 12/31/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Terry Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-24-98

Truck #: 34

Driver Signature: F. Alcott

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 8DDDS6

Tonnage: 30.21

Received By: 4 Carter

a division of Chambers Oakridge Landfill, Inc.



OAKRIDGE LANDFILL

#

2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 563-2607
(803) 563-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/1995

Extended to 12/31/98 (cc)

Generator: SUPERVISOR OF SHIPBUILDING

Account Number: 490-189

19

Location/Address: SWMU 166 1899 N HOBSON N CHAS SC

Tele Number: 843-743-6777 EXT 147 Contact: TERRY LEWIS

Generator Signature: Terry L Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: BUTLER WARE TRUCKING

Date: 10-24-98 Truck # 19

Driver Signature: Seroy

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: SOL / TCE CONTAMINATED SOIL

Ticket Number: 8D705 **Tonnage:** 30.96

Received By: HCarter

a division of Chambers Oakridge Landfill, Inc.



#1
2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 663-2607
(803) 663-4188 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/1998

extended to 12/31/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189** #23

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Terry Lewis

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-24-98 Truck #: J3

Driver Signature: AC Richmond

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 80001 Tonnage: 0903

Received By: M Carter

A division of Chambers Oakridge Landfill, Inc.



**OAKRIDGE
LANDFILL**
A Division of Chambers Company

2183 Highway 78
P.O. Box 148
Dorchester, SC 29437
(803) 563-2507
(803) 563-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/19/98

Extended to 12/31/98 (rc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Melissa W. Jaffee 10/8/98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10 - 8 - 98

Truck #: 35

Driver Signature: Markie Hamilton

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 78460

Tonnage: 33.22

Received By: MCarter

a division of Chambers Oakridge Landfill, Inc.



2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 563-2807
(803) 563-4188 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/1998

extended to 12/31/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Mark W. Jett

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-8-98

Truck #: 24

Driver Signature: Jim Mifflin

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 78451

Tonnage: 3052

Received By: Y Carter

a division of Chambers Oakridge Landfill, Inc.



2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 563-2607
(803) 563-4156 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/19/98

Extended to 10/31/98 RC

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Milk W. J. Jr.

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-8-98

Truck #: 34

Driver Signature: T. White

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 78447

Tonnage: 31.02

Received By: YCarter

a division of Chambers Oakridge Landfill, Inc.



2183 Highway 78
P.O. Box 146
Dorchester, BC V0A 3T7
(604) 563-2607
(604) 563-4166 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/19/98

Extended to 12/31/98 (RC)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Michael P. Zeller

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-8-98

Truck #: 27

Driver Signature: Jerry Moody

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 78444

Tonnage: 34.37

Received By: MCarter

a division of Chambers Oakridge Landfill, Inc.



2183 Highway 78
P.O. Box 145
Dorchester, BC V0A 3T7
(604) 563-2507
(604) 563-4188 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/1998

Extended to 12/31/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Mikel P. Shultz

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10/8/98

Truck #: 110

Driver Signature: John

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 28431

Tonnage: 29.29

Received By: YCarter

a division of Chambers Oakridge Landfill, Inc.



Truck #5

2183 Highway 78
P.O. Box 148
Dorchester, SC 29437
(803) 583-2807
(803) 583-4156 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/19/98

Extended to 12/31/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Verl Holmes, Jr. M&L ¹⁰⁻⁸⁻⁹⁸

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-8-98

Truck #: 35

Driver Signature: McGowen Hamilton

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 78430

Tonnage: 30.74

Received By: MCarter



Truck #4

2183 Highway 7B
P.O. Box 145
Dorchester, BC V0A 2Z7
(604) 563-2607
(604) 563-4188 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/09/98

Extended to 12/01/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Val Fleurets for ALM 10-8-98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-8-98

Truck #: 24

Driver Signature: Jess Mungo

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 78423

Tonnage: 97.65

Received By: McCarten



Truck #3

2183 Highway 78
P.O. Box 145
Dorchester, SC 29437
(803) 563-2807
(803) 563-4158 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/1998

Extended to 12/31/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Vel Horne & J. McLean 10-8-98

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-8-98

Truck # 34

Driver Signature: T. White

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Chambers Oakridge Landfill DPW 130

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 784 20

Tonnage: 21.96

Received By: Uncarter



OAKRIDGE
LANDFILL
A Division of Chambers Company

7nd Truck

2183 Highway 78
P.O. Box 146
Dorchester, SC 29437
(803) 563-2807
(803) 563-4156 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/1998

Extended to 12/31/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Jed Chambers Jr Alden

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10-8-98

Truck #: 27

Driver Signature: Jenny Moody

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 78415

Tonnage: 34.53

Received By: Y Carter

a division of Chambers Oakridge Landfill, Inc.



OAKRIDGE
LANDFILL

CHAMBERS OAKRIDGE LANDFILL INC.

1st Truck

2183 Highway 78
P.O. Box 146
Dorchester, BC V0A 3T7
(609) 563-2807
(609) 563-4188 Fax

SPECIAL WASTE MANIFEST

Approval # OR 9806017

Expiration 09/1998

Extended to 12/31/98 (cc)

Generator: **SUPERVISOR OF SHIPBUILDING**

Account Number: **490-189**

Location/Address: **SWMU 166 1899 N HOBSON N CHAS SC**

Tele Number: **843-743-6777 EXT 147** Contact: **TERRY LEWIS**

Generator Signature: Ted Heenes

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: **BUTLER WARE TRUCKING**

Date: 10/8/98

Truck #: 16

Driver Signature: Berry

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: **Chambers Oakridge Landfill DPW 130**

Description of Waste: **SOL / TCE CONTAMINATED SOIL**

Ticket Number: 29461

Tonnage: 2.21

Received By: